

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Other instructions on  
reverse side

3. LEASE DESIGNATION AND SERIAL NO.

U-52169 expires 3/31/93

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Forest Creek Divide

8. FARM OR LEASE NAME

N/A

9. WELL NO. Forest Creek

Divide Unit #1

10. FIELD AND POOL, OR WILDCAT

✓ Wildcat

11. SEC., T., R., M., OR S.E.  
AND SURVEY OR AREA

NE/4 NW/4

Sec. 28-T31S-R2W S.L.M.

12. COUNTY OR PARISH 13. STATE

Garfield

Utah

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

ARCO Oil and Gas Co., A Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR

P.O. Box 5540, Denver, CO 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

\* 130' FNL & 2435' FWL (NE/4 NW/4) Sec. 28-T31S-R2W S.L.M.

At proposed prod. zone

approx. the same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approx 3.5 miles SW of Antimony, Utah

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any) 2435'

16. NO. OF ACRES IN LEASE

5304.07

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

Not assigned

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT. NA

19. PROPOSED DEPTH

3800'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DP, RT, GR, etc.)

Ground elevation: 7085'

22. APPROX. DATE WORK WILL START\*

October 20, 1984

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14-3/4"	10-3/4"	40.5#, K-55, STC	1050'	Ont to surf approx 815 SXS
9-1/2"	5-1/2"	15.5#, K-55, STC	3800'	Ont to 2000' approx 425 SXS

A 7-5/8" contingency string will be considered if hole conditions dictate. At that time a Sundry Notice will be filed.

\*Note: Location was moved due to potential archeological site. Moving the location was approved at the onsite inspection held on 9/20/84.

Propose to drill to 3800' to test the Navajo formation @ 3355'. This permit is being filed in accordance with Onshore Oil & Gas Order Number 1.

Attachments:

Drilling Program with Exhibits

Surface Use Plan with Exhibits.

ARCO Oil & Gas Company is the current lessee of record on the subject lease. This well is the first well to be drilled within the Forest Creek Divide Unit.

For any questions concerning this subject please call Mr. Harry Engel of our Drilling Department at (303) 293-7305.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Harry B. Morse

HRE

TITLE Operations Manager

DATE

26 SEPT. 1984

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY THE STATE

UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 11/15/84

BY: John R. Engel

See Instructions On Reverse Side

RECEIVED

OCT 01 1984

DIVISION OF OIL  
GAS & MINING



FORM F-106

Record GLO plat 17  
 • Found corner  
 ( ) Field measure

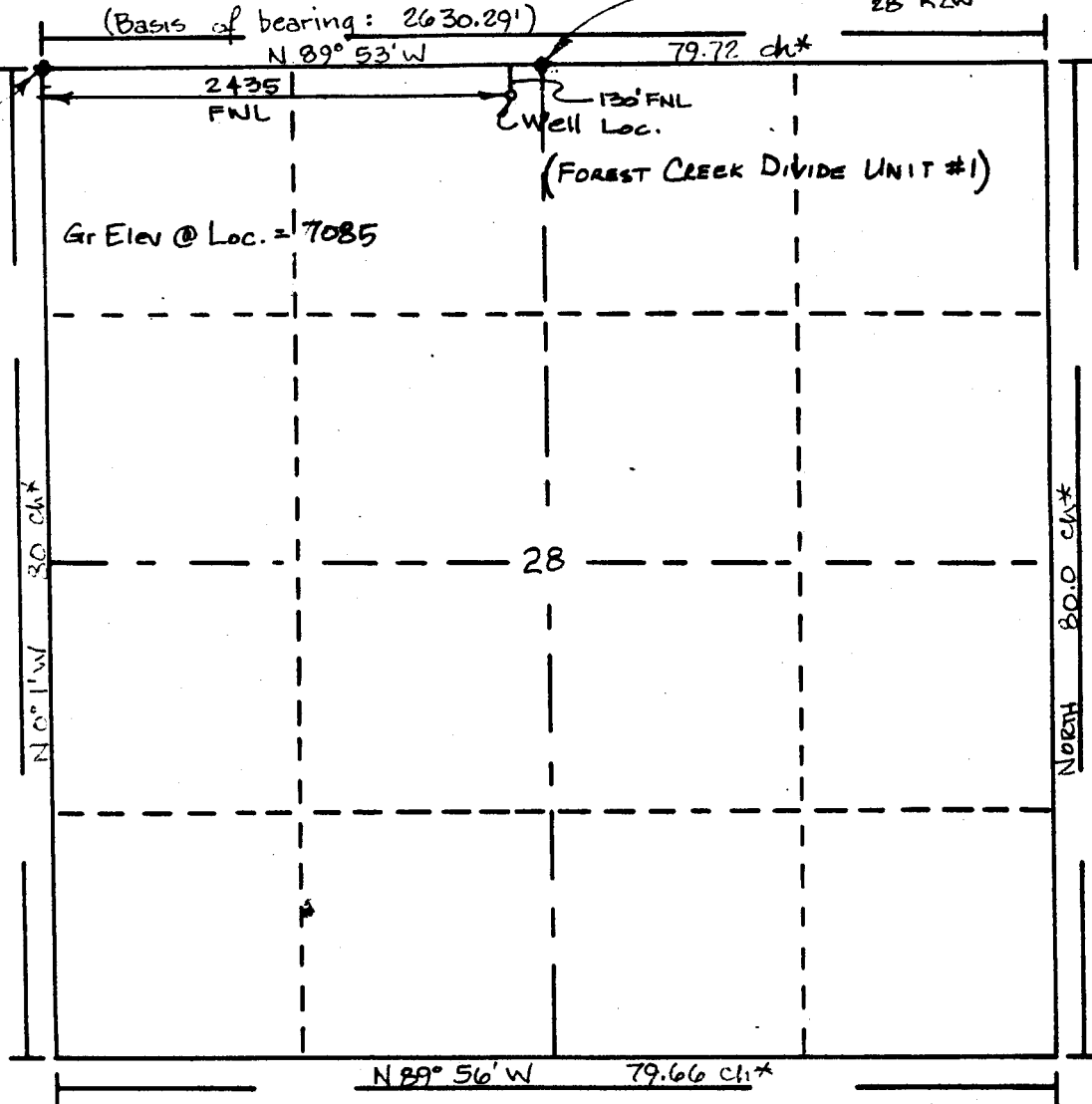
EXHIBIT "B"

Found GLO 1913 B.C.  
 marked

R. 2 W.

Found GLO 1913 B.C.  
 marked 1/4 21 T31S  
 28 R2W

20 21 T31S  
 29 28 R2W  
 1/4 rock pile



Scale... 1" = 1000'

Powers Elevation of Denver, Colorado  
 has in accordance with a request from HARRY ENGLE  
 for ARCO OIL & GAS  
 determined the location of FOREST CREEK DIVIDE UNIT #1  
 to be 130' FNL & 2435' FNL of Section 28 Township 31 South  
 Range 2 WEST of the SALT LAKE Meridian  
 GARFIELD County, UTAH

I hereby certify that this plat is an  
 accurate representation of a correct  
 survey showing the location of

Date: Sept. 21, 1981

E. Samuel Stegeman  
 Licensed Engineer No. 20596  
 State of COLORADO "Utah exception"



BUREAU OF LAND MANAGEMENT  
CEDAR CITY DISTRICT  
CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company: ARCO Oil & Gas Company

Well No.: Forest Creek Divide  
Unit #1

Location: NE/4 NW/4 Sec. 28-T31S-R2W S.L.M. Lease No.: U-52169

Onsite Inspection Date: September 20, 1984

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to ensure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

Oligocene Volcanics - Surface	
Eocene Claron	- 1050'
Thrust Fault	- 1700'
Carmel	- 3080'
Navajo	- 3355'

2. Estimated depth at which oil, gas, water or other mineral-bearing zones are expected to be encountered:

Formation & Depth

Expected oil zones:	} Possible Navajo @ 3355'
Expected gas zones:	
Expected water zones:	Possible Navajo @ 3355'
Expected mineral zones:	None anticipated

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth, cased and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Minimum Specifications for Pressure Control:

Exhibit "A" is a schematic diagram of the blowout preventer equipment. The annular preventer will be tested to 1500 psi and the pipe and blind rams will be tested to 3000 psi upon nipple up. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. All checks of BOP will be noted on Daily Drilling Reports. Accessories to BOP equipment will include an upper and lower kelly cock, a floor safety valve, a drill string BOP, and a choke manifold with equipment pressure rating equal to the BOP stack.

Choke manifold and safety valves will be pressure tested to 3000 psi upon nipple-up. Exhibit "A" also shows the proposed Accumulator Unit and Choke Manifold. Hydraulic controls for BOPE will be located at the Accumulator Unit with hand wheel back-up.

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. The Resource Area will be notified 48 hours in advance when pressure tests are to be conducted.

#### 4. Proposed Casing Program:

<u>Casing</u>	<u>Hole Size</u>	<u>Hole Interval</u>	<u>Length</u>	<u>OD</u>	<u>Section Size Weight, Grade Connection</u>	<u>New/Used</u>
Conductor (Set by Dry Hole Digger)	22"	0 - 100'	100'	16"	65#, welded jt.	New
Surface	14-3/4"	0 - 1050'	1050'	10-3/4"	40.5#, K-55, STC	New
Production	9-1/2"	0 - 3800'	3800'	5-1/2"	15.5#, K-55, STC	New

#### Cement Program:

Conductor: Cmt to surf w/approx 130 sx Cl "H" neat cmt.

Surface Casing: Cmt to surf w/approx 500 sx Lite cmt w/1/4#/sx cellophane, 2% CaCl<sub>2</sub> mixed @ 12.7 ppg, yield 1.84 ft<sup>3</sup>/sx foll'd by 315 sx Cl "H" cmt w/1/4#/sx cellophane mixed @ 16.4 ppg, yield 1.06 ft<sup>3</sup>/sx. Cmt will be circulated to surface.

Production Casing: Mix & pmp approx 200 sx "Lite" cmt w/10#/sx Gilsonite, 1/2#/sx cellophane mixed @ 12.7 ppg, yield 1.84 ft<sup>3</sup>/sx foll'd by 225 sx Cl "H" neat cmt w/1/4#/s cellophane, mixed @ 16.4 ppg, yield 1.06 ft<sup>3</sup>/sx. Est top of cmt @ 2000'.

Note: Hole conditions will dictate type and percentage of additives to be used.

All potentially productive hydrocarbon zones will be cemented to prevent communication. Actual production casing cement volumes will be based upon caliper log plus 15%-20% excess.

Anticipated cement tops will be reported as to depth, not the expected number of sacks. The Resource Area will be notified 48 hrs in advance when running casing strings and cement.

5. Type and Characteristic of Proposed Drilling Fluids:

Mud system will be low-lime gel-chemical for the surface hole with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil on the surface. Adequate mud materials will be stockpiled on location to completely rebuild entire mud system volume (surface volume + hole volume). Surface volume estimated at ±500 bbls. An aerated mud system or stiff foam will be used below the surface casing.

<u>Depth</u>	<u>Type</u>	<u>Weight #/gal.</u>	<u>Visc. sec/qt.</u>	<u>Fluid Loss</u>
0'-1050'	Fresh water gel, lime, spud mud	8.3-8.6	30-40	No control
1050'-TD	Aerated mud or stiff foam	Hole conditions will dictate mud weights & rheological properties.		

No chromates or other toxic chemicals will be used in the mud system. A shale shaker, desander, and desilter will be utilized to aid in solids control when drilling with mud.

Blooe line will be misted to reduce fugitive dust when air drilling.

6. Coring, Logging, and Testing Program:

- a. Coring: Two 60' cores in the Navajo.
- b. DSTs: Two open hole DSTs are planned in the Navajo.
- c. Logging as follows:

<u>Open Hole</u>		<u>Cased Hole</u>
DIL/SP/BHCS/GR-Cal	TD-Base of surf csg	CBL/CCL/GR/VDL-TD to TOC
FDC/CNL/GR/Cal	" " " "	
VSP	TD-surface	

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Cedar City District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. H<sub>2</sub>S is not anticipated at any depths in this well.

8. Anticipated Starting Dates and Notifications of Operations:

The operator will contact the Escalante Resource Area at (801)826-4291, forty-eight (48) hours prior to beginning any dirt work on this location.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the Area Manager (Cedar City District at 801-586-2401) within a minimum of twenty-four (24) hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within twenty-four (24) hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329, "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed directly with the BLM Cedar City District Office, P.O. Box 724, Cedar City, Utah 84741.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to the effect will be filed for prior approval of the District Manager, all conditions of this approval plan are applicable during all operations conducted with the replacement rig. In emergency situations, verbal approval to bring on a replacement rig will be approved by the District Petroleum Engineer.

ARCO Oil & Gas Company  
Forest Creek Divide Unit #1  
NE/4NW/4, Sec. 28-T31S-R2W S.L.M.  
Garfield County, Utah  
Page 5

Should the well be successfully completed for production, the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Manager within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The marker will be constructed as follows: According to regulations.  
The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker with a plate, cap or beaded-on with a welding torch:

"Fed" or "Ind", as applicable. "Well number, location by 1/4 1/4 section, township and range". "Lease number". "Operator".

Other: The anticipated spud date is October 20, 1984. Dirt work on the access road is estimated to take approximately 4 days to complete. Therefore dirt work is estimated to start October 16, 1984, or as soon as approval is received. ARCO Oil & Gas Company has in effect a \$150,000 Nation Wide Drilling Bond (#7943391) to cover drilling operations on all Federal lands. ARCO Oil & Gas Company is the current lessee of record on the subject lease.

B. SURFACE USE PLAN

1. Existing Roads:

- a. The location is approximately 3.5 miles southwest of Antimony, Utah. The proposed wellsite and elevation plat are shown as Exhibit "B". Staking included two directional reference stakes.
- b. Exhibit "C" describes the route to location. At the junction of Utah 22 & Jones Corral Road in Antimony, Utah, go south on Jones Corral Road for 2.8 miles, turn left and go 0.7 miles to location.
- c. Exhibit "C" shows the location of a temporary crossing that will be installed over the East Fork Canal. The crossing will be a 6' diameter culvert, using fill material located onsite. The location of the culvert was approved at the onsite inspection. The land where the culvert will be installed and the location of the fill material is owned by the Otter Creek Reservoir Company. Contact Mr. Virge Brown at (801)876-5869. The 6' culvert will be removed after operations are completed and if the well is a producer, a permanent crossing will be designed to handle the water flow and traffic.

2. Planned Access Roads to be Constructed:

1. Width will be 18' (top surface). Total length is 0.7 miles.
2. Maximum grade will be 8%.
3. Cuts & fills will be kept to a minimum to reduce surface damage.
4. Turnouts are not required.
5. The access road will be designed to ensure proper drainage.
6. No culverts will be required.
7. There will be no fence cuts or cattleguards installed.
8. No surfacing material is required. No surface material will be removed from BLM Land.
9. There are no existing facilities on the proposed location.
10. Road construction will be in conformance with Class III road standards.

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the District Manager in advance.



All trees will be cut and stockpiled on location.

3. Location of Existing Wells Within a One-Mile Radius:

1. Water wells - none.
2. Injection wells - None
3. Disposal wells - None
4. Producing wells - None
5. Drilling wells - None
6. Temporarily abandoned wells - None
7. Abandoned wells - None
8. Shut-in wells - None
9. Monitoring or observation wells - None

4. Location of Tank Batteries and Production Facilities:

All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earth tone color to match the standard environmental colors, as determined by the District Manager. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

All loading lines and valves will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter along with any other sections occurring on the pad. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location or at a site that will accomodate design requirements. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

ARCO Oil & Gas Company does not own or operate any facilities within a one-mile radius of the proposed location. This well is a wildcat. If the well is a producer, a Sundry Notice will be filed describing all proposed production facilities.

5. Location and Type of Water Supply:

A. All water needed for drilling purposes will be obtained from:

Otter Creek Reservoir Company  
Contact: Mr. Virge Brown at (801)896-5869  
Water location is at the East Fork Canal as shown on Exhibit "C"

A temporary water use permit for this operation will be obtained from the Utah State Engineer & Otter Creek Reservoir Company. Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of the land. An approved temporary water use permit will be filed under a separate letter.

B. Water trucks will be used to haul water to location.

C. No water well will be drilled.

D. No water will be taken off Federal lands.

6. Source of Construction Material:

Pad construction material will be obtained from cut material located onsite. No material will be taken from lands other than the proposed location.

7. Methods of Handling Waste Disposal:

The reserve pit will not be lined.

Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying. The fence will be four strands of barb wire.

All trash must be contained in a portable wire cage and disposed of at a sanitary landfill. No burning will take place. Operator will be responsible for trash and roadside litter generated by their operation along their access route.

Produced waste water will be confined to a lined pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

Drill cuttings will be buried in the reserve pit. Drilling fluids will be handled and disposed of in the reserve pit. Any fluids produced during drilling test or while making production test will be collected in a test tank. Any spills of oil gas, salt water or other noxious fluids will be cleaned up and removed.

Chemical toilet facilities will be provided for human waste. Garbage and non-flammable waste will be handled in a closed wire cage. Drill fluids, water, drilling mud and tailings will be kept in reserve pit.

After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. All dangerous open pits will be fenced during drilling and kept closed until such time as the pit is leveled.

8. Ancillary Facilities:

Living facilities will be required. They will be located onsite. Three (3) or four (4) trailers will be on location, they will be equipped with concrete septic tanks (closed system). The septic tanks will be pumped as required. No waste will be disposed of on location. The closed concrete septic tank will conform to local health regulations.

9. Well Site Layout:

The reserve pit will be located on the west side of location. Exhibit "D" is drillsite location as staked. Exhibit "E" shows planned cuts and fills.

ARCO Oil & Gas Company  
Forest Creek Divide Unit #1  
NE/4NW/4, Sec. 28-T31S-R2W S.L.M.  
Garfield County, Utah  
Page 10

The top 6" of soil material will be removed from the location and stockpiled separately off the location on the northeast. Topsoil along the access road will be reserved in place adjacent to the road. If inadequate topsoil is stockpiled, the operator will bring in suitable material from outside sources at his expense.

A trash pit will not be allowed on location.

Exhibit "F" is a diagram of the rig and equipment.

10. Plans for Restoration of Surface

Immediately upon completion of drilling, the location and surrounding area will be cleared of all remaining debris, materials, trash and junk not required for production. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

The operator or his contractor will notify the District Office (48) hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

Before any earthwork to restore the location takes place, the reserve pit will be dry and all trash (barrels, metal, etc.) it contains must be removed from public lands. Any dispersal of clarified drilling mud/drilled fluids over the drill location is subject to the approval of the District Office.

All disturbed topsoil will be evenly distributed over the disturbed area.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

All disturbed areas will be scarified with the contour to a depth of 8-12 inches. Do not smooth pads out, leave a roughened surface.

Seed will be broadcast or drilled during a period specified by the District Office. Seeding will be repeated until vegetation is successfully established. Seeding will be done in presence of the authorized officer. Seed mixture will be prescribed by the District Office.

ARCO Oil and Gas Company  
Forest Creek Divide Unit #1  
NE/4NW/4, Sec. 28-T31S-R2W S.L.M.  
Garfield County, Utah  
Page 11

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed. The time required to complete the reclamation will depend upon the area to be reclaimed. ARCO Oil and Gas Company agrees to begin reclamation as soon as weather conditions are suitable and further agrees to complete the project in a timely manner.

11. Surface and Mineral Ownership:

The location surface is administered by the BLM. The mineral rights are Federal, administered by the BLM.

12. Other Information:

For any questions regarding this permit, please contact Mr. Harold Engel of our Drilling Department at (303)293-7305.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

The location was moved approximately 100' SW during the onsite inspection to avoid a potential archeological site discovered by Brian O'Neil (Archeologist) of Powers Elevations. The location as it exists now will not disturb any archeological artifacts. A copy of the archeological report will be filed under separate cover. However, if any cultural resources are found during construction, all work will stop and the District Manager will be notified.

This permit will be valid for a period of one (1) year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

Exhibit "G" is a copy of the proposed Forest Creek Divide Unit Area. This well is the first proposed well within the unit area.

ARCO Oil & Gas Company  
Forest Creek Divde Unit #1  
NE/4NW/4, Sec. 28-T31S-R2W S.L.M.  
Garfield County, Utah  
Page 11

13. Lessee's or Operator's Representative and Certification:

Larry Morse  
ARCO Oil and Gas Company  
P. O. Box 5540  
Denver, Colorado 80217  
Bus. Tele: (303) 293-7031

J. M. McCarthy  
ARCO Oil and Gas Company  
P. O. Box 5540  
Denver, Colorado 80217  
Bus. Tele: (303) 293-7127  
Res. Tele: (303) 293-1339

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by ARCO Oil and Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

28 SEPT. 1984  
Date

J. M. McCarthy for  
Larry Morse  
Operations Manager  
ARCO Oil and Gas Company

ARCO Oil & Gas Company  
Forest Creek Divide Unit #1  
NE/4NW/4, Sec. 28-T31S-R2W S.L.M.  
Garfield County, Utah

The onsite inspection was held 8/29/84

PARTICIPANTS:

Harold R. Engel

Leonard Henney

Quay Simons

TITLES:

Drilling Engineer, ARCO Oil & Gas  
Company

Ross Construction Company

BLM

Escalante Resource Area Manager's address and contacts are:

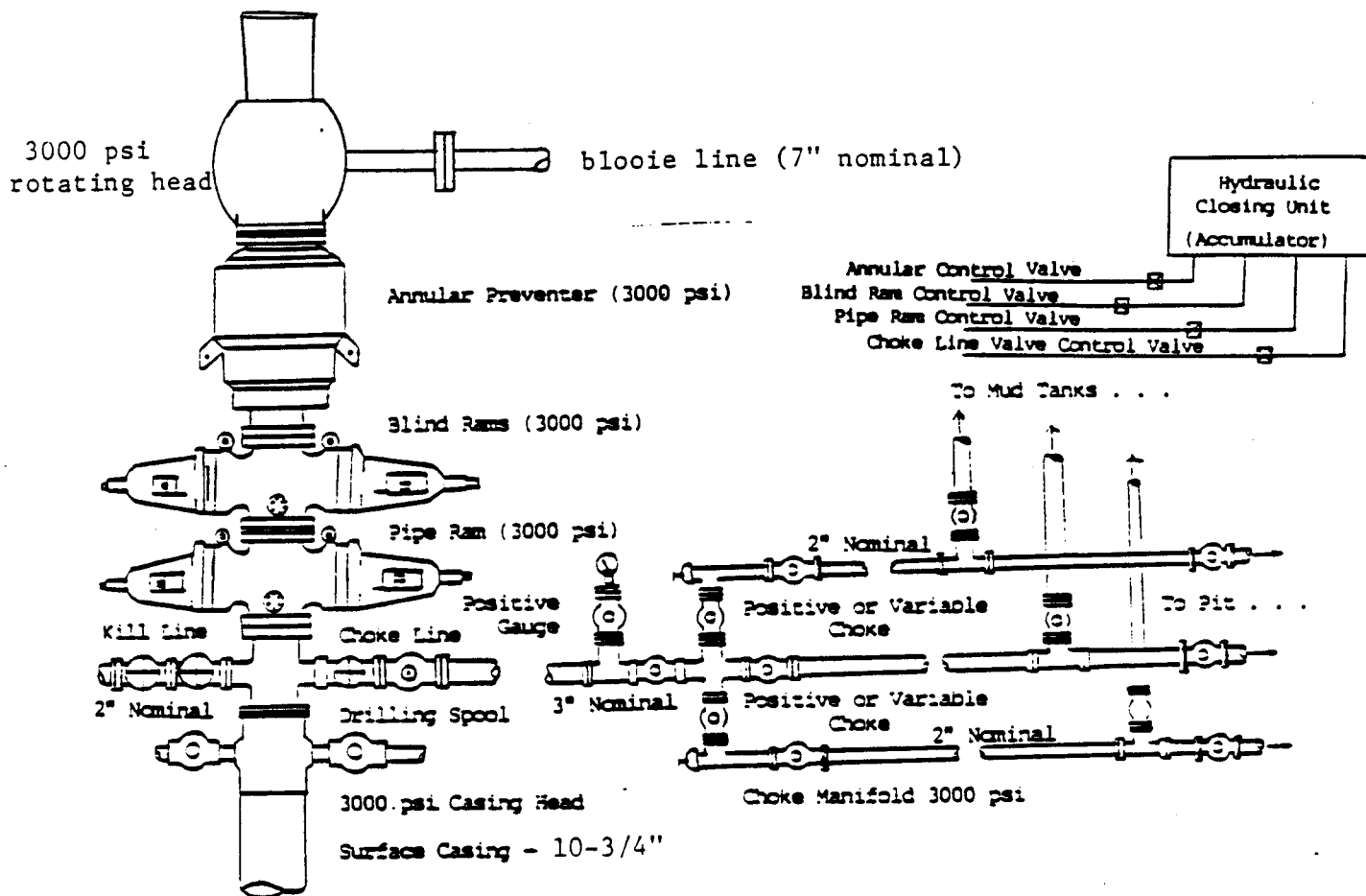
Address: P.O. Box 225, Escalante, Utah 84726

Your contact is: Mr. Quay Simons  
Office phone: (801)826-4291

Cedar City District Office contact is Mr. Paul Carter

Address: P.O. Box 724  
Cedar City, Utah 84720

Office phone: (801)586-2401



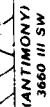
1. All BOP equipment shall be fluid and/or mechanically operated.
2. BOP's and all fittings will be in good working condition and rated at 3000 psi W.P. minimum.
3. Equipment through which bit must pass shall be at least as large as casing size being drilled.
4. Nipple above BOP shall be at least same size as casing being set.
5. Upper Kelly Cock and lower Kelly Cock shall be 3000 psi W.P. minimum.
6. Floor safety valve (full opening) and drill string BOP with appropriate rated pressure shall be available on rig floor with connections or subs to fit any tool joint in string.
7. Minimum size for choke line shall be 3 inches nominal diameter, minimum size for vent lines downstream of chokes shall be 2 inches nominal, and vent line which by-passes shall be a minimum of 3 inches nominal and shall be as straight as possible.
8. Fluid lines from accumulator to BOP's and all remote control fluid lines shall be steel and rated at or above maximum accumulator pressure. Lines shall be bundled and protected from damage.
9. Rams will be used in following positions: (ARCO Drl. Supv. may reverse ram location)

	<u>Drilling</u>	<u>Running Casing</u>
Upper Ram	Blind	Blind
Lower Ram	Drillpipe	Casing Rams
10. Minimum size for kill line is 2 inches nominal.
11. Extensions and hand wheels shall be installed.

ALL SPECIFICATIONS LISTED ARE PER API-RP53



3660 III NW  
(ANGLE)



ARCO OIL & GAS

EXHIBIT "D"

FOREST CREEK DIVIDE UNIT #1

130 FNL  
2435 FNL } SEC. 28-31S-2W  
GARFIELD Co., UTAH

1" = 50'

C.I. = 5' foot

✓ Door Az = 58°

1/4 Cor 21 T31S  
28 R2W  
610  
1913 B.C.

SAVE! DO NOT  
DISTURB!

TOPSOIL  
STOCKPILE

C or F is Cut or  
Fill from existing  
ground to finish grade.

EXCESS  
MATERIAL

RESERVE PIT

8' x 100' x 130'

(Bottom @ 7076)

Well  
Loc.

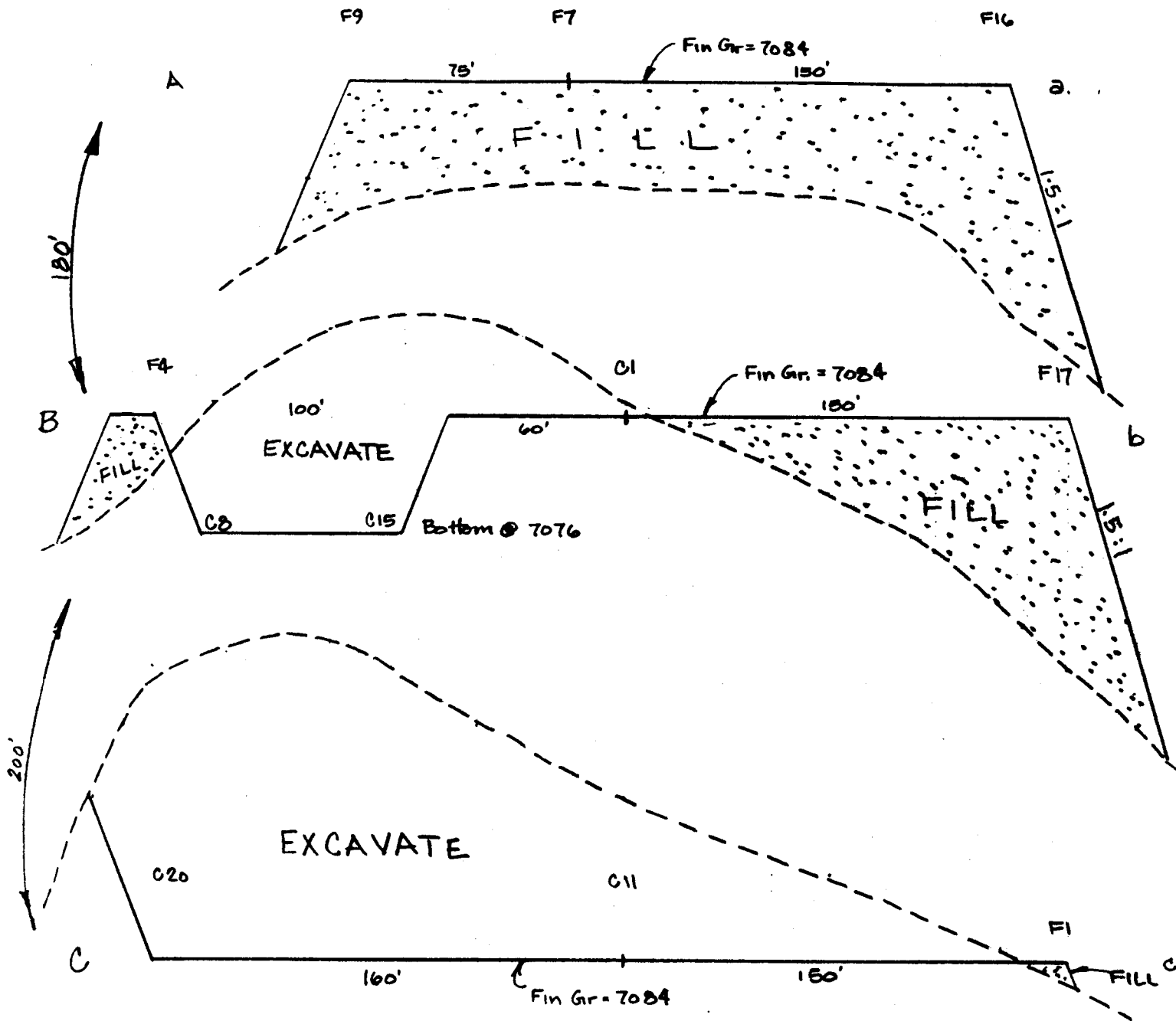
Gr Elev = 7085

Fin Gr = 7084

SEPT. 21, 1984  
E. SAMUEL STEWART

POWERS ELEVATION CO.  
RICHFIELD, UTAH

# EXHIBIT "E"



--- Existing ground  
 — Proposed grade

Scales: 1" = 50' Horiz  
 1" = 10' Vert

C or F is Cut or Fill from  
 existing ground to finish grade.

All sideslopes @ 2:1  
 unless noted.

±  
 ±

Quantities will  
 vary with final  
 pad size.

ARCO OIL & GAS  
 FOREST CREEK DIVIDE UNIT #1  
 NE-NW 28-31S-2W  
 GARFIELD CO, UTAH

SEPT 21, 1984  
 EES

POWERS ELEVATION CO.  
 RICHFIELD, UTAH

ARCO OIL & GAS  
FOREST CREEK DRIVE UNIT #1  
130 FNL 7  
2438 FNL } SEC. 28-31S-2W  
GARFIELD Co., UTAH

EXHIBIT "F"

1" = 50'

C.I. = 5' foot

∠ Door Az = 58°

1/4 Cor 21 T315  
25 RW 20  
610  
1913 BC.

SAVE! DO NOT  
DISTURB!

TOPSOIL  
STOCKPILE

C or F is Cut or  
Fill from existing  
ground to finish grade.

EXCESS  
MATERIAL

PIPE  
RACKS

CAT WALK

PIPE  
RACKS

E HOLE

CONCRETE SEPTIC (CLOSED SYSTEM)  
TANK

RESERVE PIT

8' x 100' x 130'

(Bottom @ 7076)

MUD TANK

ENGINE &  
DRAW WORKS

DOG  
HOUSE

MUD  
PUMP

PUMP

WATER TANK  
FUEL TANK

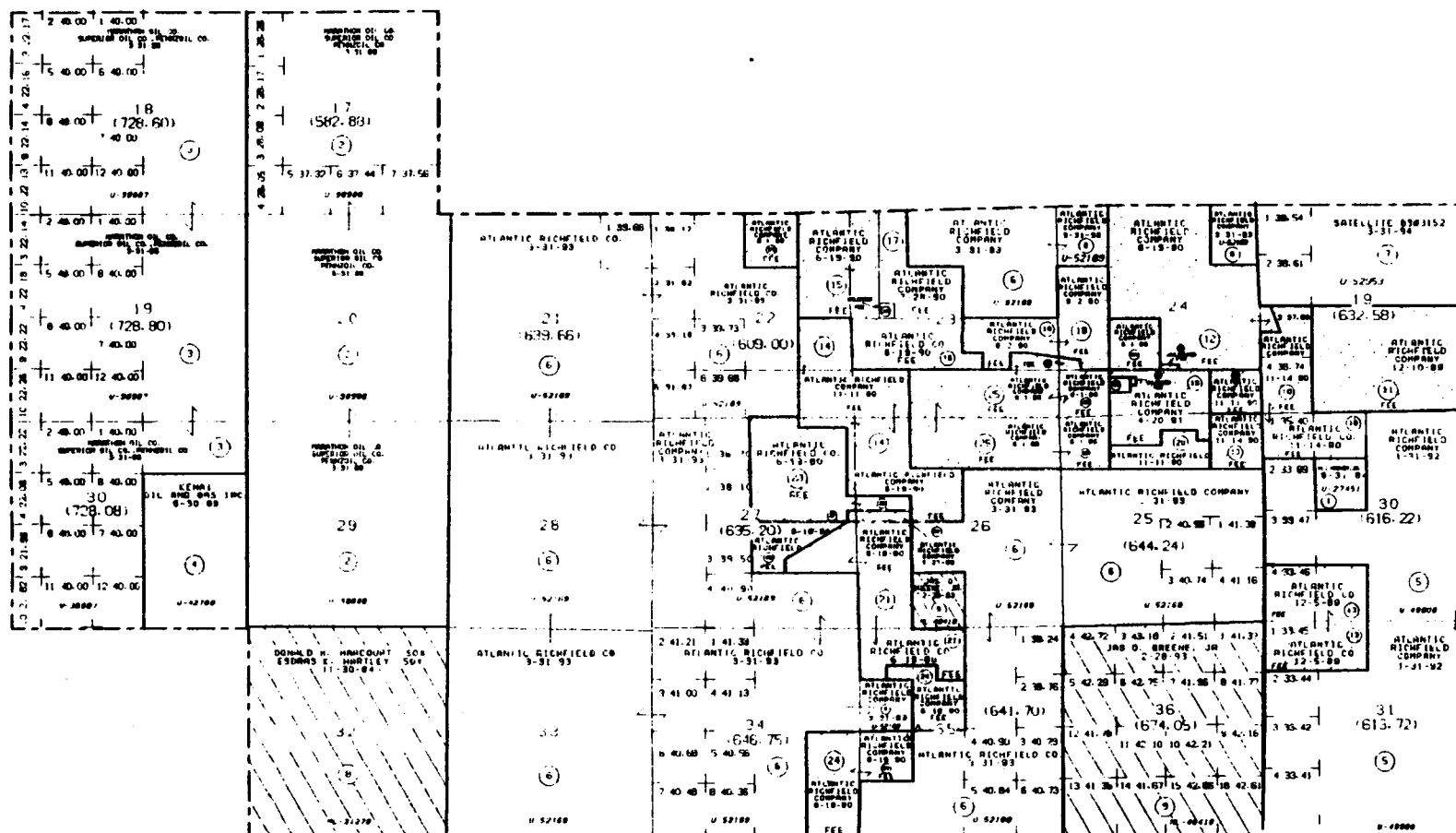
TRAILERS

SEPT. 21, 1984  
E. SAMUEL STEGEMAN

POWERS ELEVATION CO.  
RICHFIELD, UTAH

R 2 W

R 1 W

T  
31  
ST  
31  
S

	ACREAGE	PERCENTAGE
FEDERAL LANDS	10190.69	71.56%
STATE LANDS	1354.05	9.50%
PATENTED LANDS	2696.74	18.94%
① TRACT NUMBER	14241.48	100.00%
----- UNIT OUTLINE		

1 MILE

**ARCO Exploration Company**

Division of Atlantic Richfield Company  
**WESTERN U.S. OPERATIONS**  
 DENVER, COLORADO

**EXHIBIT "G"**  
**FOREST CREEK DIVIDE UNIT**  
**GARFIELD COUNTY, UTAH**

LAND BY: S. M. HALL DATE: JULY 12, 1964  
 CRO BY: S. M. HALL & S. M. HALL IDS NO. 200100  
 HORIZ. SCALE: \_\_\_\_\_ FILE NO. \_\_\_\_\_  
 VERT. SCALE: \_\_\_\_\_ APPR'D BY: \_\_\_\_\_



**POWERS ELEVATION**

OIL WELL ELEVATIONS - LOCATIONS  
ENVIRONMENTAL - ARCHAEOLOGICAL SERVICES  
600 SOUTH CHERRY STREET, SUITE 1201  
DENVER, COLORADO 80222-1767  
PHONE NO. 303/321-2217

September 24, 1984

Mr. Harry Engle  
ARCO Oil & Gas Company  
Division of Atlantic Richfield  
Company  
707 17th Street, Arco Tower  
P.O. Box 5540  
Denver, CO 80217

Dear Mr. Engle:

Enclosed is the cultural resources report for the following  
ARCO Oil & Gas Company location:

Forest Creek Divide Unit #1

Files searches conducted at the Division of State History  
and the Vernal District, BLM, revealed no sites or surveys  
previously reported within the project area. Our field  
survey revealed site 42GA2909, a lithic scatter/open camp-  
site and an isolated artifact, a historic bitters bottle.

While the isolated find is not considered to be significant,  
site 42GA2909 is considered to be potentially eligible to  
the National Register of Historic Places. For this reason,  
we recommend that the project be allowed to proceed but that  
the well location be moved 100 feet west to avoid the site.

If you have any questions about this report, please feel free  
to call me. Thank you.

Sincerely,

*Marcia J. Tate*

Marcia J. Tate  
Manager  
Archaeology Department

Enclosure

cc: BLM, Kanab Resource Area  
BLM, Cedar City District  
BLM, Rich Fike, State Office  
State Archaeologist/SHPO  
Mr. Brian O'Neil, Powers Elevation

MT/kr

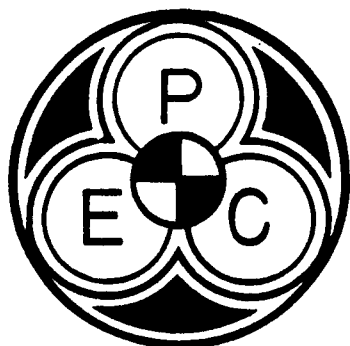
# Cultural Resource Management Report

ARCO Oil & Gas Company  
Forest Creek Divide Unit #1  
Garfield County, Utah

Lead Field Investigator      Brian P. O'Neil, M.A.

Principal Investigator      Marcia J. Tate

Date sept. 25, 1984 For      ARCO Oil & Gas Company



## POWERS ELEVATION

CHERRY CREEK PLAZA, SUITE 1201  
600 SOUTH CHERRY ST., DENVER, COLORADO 80222  
(303) 321-2217

### Archæology Division



A DIVISION OF PETROLEUM INFORMATION CORPORATION/A SUBSIDIARY OF A.C. NIELSEN COMPANY

Bureau of Land Management  
Utah State Office

Summary Report of  
Inspection for Cultural Resources

Report Acceptable

Yes ☐ No ☐

Mitigation Acceptable Yes ☐ No ☐

Comments: \_\_\_\_\_

1. Report Title F O R E S T C R E E K D I V I D E U N I T # 1

2. Development Company ARCO Oil & Gas Company

3. Report Date 09 18 1984

4. Antiquities Permit No. BLM Permit: 84-UT-218;  
State Permit: U-84-5-59B.

5. Responsible Institution P O W E R S E L E V A T I O N County Garfield

6. Fieldwork Location: TWN 31S Range 2W Section(s) 28

TWN 78 Range 82 Section(s) 86

7. Resource Area KA TWN 94 Range 98 Section(s) 102

PO=PONY EXPRESS, BR=BEAR RIVER, PR=PRICE RIVER, WS=WARM SPRINGS  
BC=BOOK CLIFFS, HR=HOUSE RANGE, SE=SEVIER RIVER  
HM=HENRY MOUNTAINS, BE=BEAVER RIVER, DX=DIXIE  
KA=KANAB, ES=ESCALANTE, SJ=SAN JUAN, GR=GRAND  
SR=SAN RAFAEL, OM=DIAMOND MOUNTAIN

Fill in spaces 65, 69, 81, 85, 97, 101 Only if:  
V=Vernal Meridian  
H=Half Township

8. Description of Examination Procedures: A ten acre area surrounding the well pad center stake was surveyed by walking a series of parallel east-west transects at intervals of 15 meters, Arroyo cuts, ant hills, and animal burrows were examined for evidence of buried cultural material. The access road was surveyed by zig-zag transects 50 feet each side of the center flags to form a 100 foot wide R.O.W. approximately 3000 feet long from its take off point along the Mt. Dutton/Jones Corral Guard Station (USFS) access road.

9. Linear Miles Surveyed 1.7 and/or 112

10. Inventory Type I

R=Reconnaissance  
I=Intensive  
S=Statistical Sample

Definable Acres Surveyed 118

Legally Undefinable Acres Surveyed 123

(\* A parcel hard to cadastrally locate i.e., center of section)

11. Description of Findings (attach appendices, if appropriate) 12. Number Sites Found: 1  
One site, 42-GA-2909, an open lithic scatter/short term camp; No sites = 0  
and one isolated find, FCD #1-1, a historic bitters bottle, were recorded within the surveyed project area.

13. Collection: Y Yes, N=No

14. Actual/Potential National Register Properties Affected: Site 42-GA-2909 should be considered potentially eligible to the National Register of Historic Places in that the site is likely to yield significant scientific information on the prehistory of the area. This is due to its present integrity and relatively high (see continuation sheet)

15. Literature Search, Location/Date: File searches were conducted on 9/10/84, at the Division of State History and Kanab Resource Area Office. (see continuation sheet)

16. Conclusion/Recommendations: Due to the presence of 42-GA-2909, a potentially eligible National Register Site, we recommend that the well location be moved 100 feet to the west in order to avoid the site. Isolated find FCD#1-1 has been collected and no further work is required. Given the above considerations, we recommend that the project be allowed to proceed. Should buried cultural materials be encountered during the construction of the project, all work should cease and the BLM resource area archaeologist notified.

17. Signature Brian O'Neil

\* For extra locals use additional 8100-3 forms

8100-3  
(3/82)



ARCO Oil & Gas Company  
Forest Creek Divide Unit #1  
Continuation Sheet

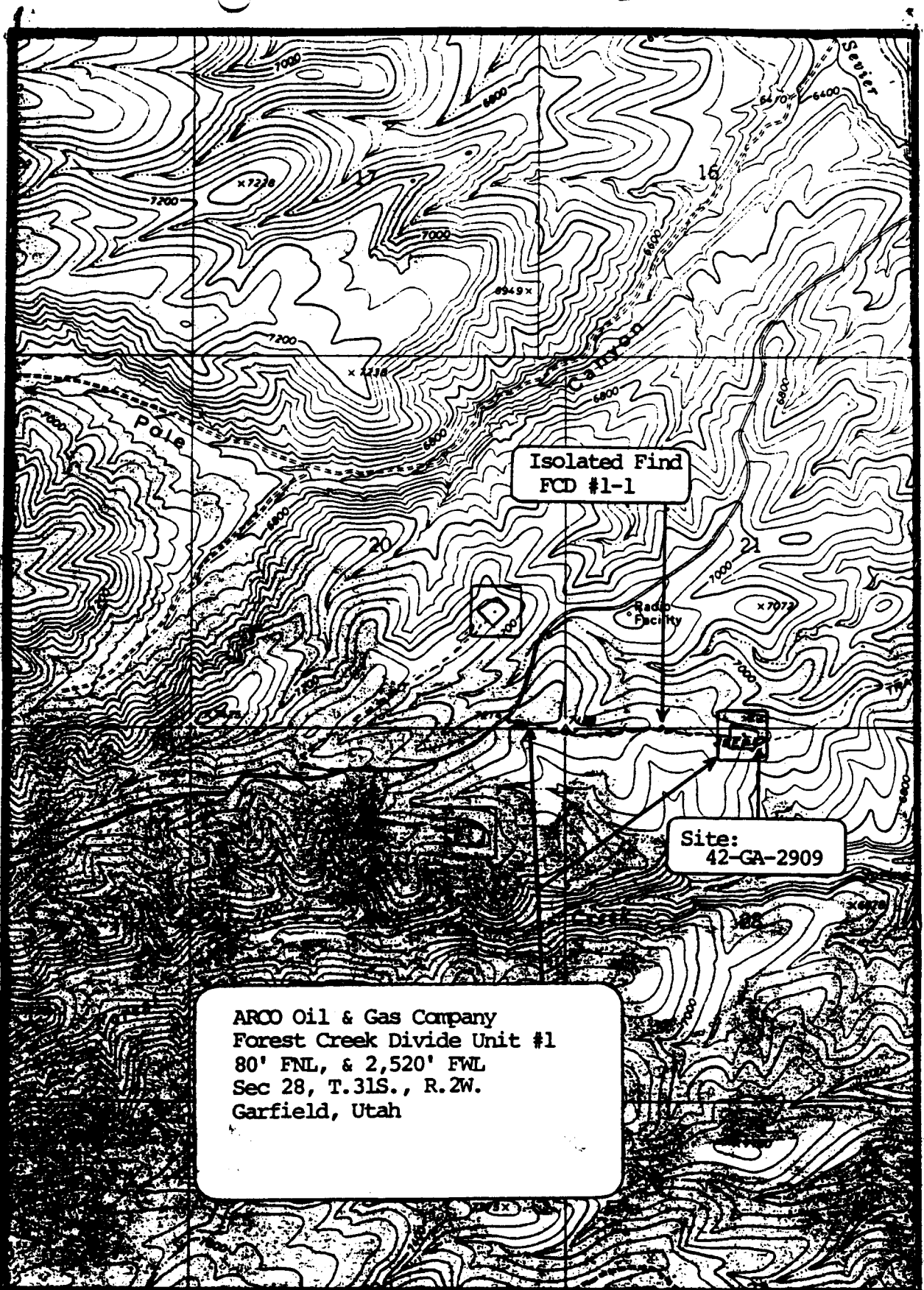
Actual/ Potential National Register Properties Affected: ... density of cultural materials representing mixed hunting and gathering resource procurement. Both cultural identity and chronological placement data are represented.

Literature Search, Location/Date: ...No sites or surveys have been previously reported within the project area.

ARCO Oil & Gas Company  
Forest Creek Divide Unit #1  
80' FNL & 2,520' FWL  
Sec 28 T.31S., R.2W.  
Deep Creek, 7.5', 1971.  
Garfield, Utah



Looking NE at center stake.



Isolated Find  
FCD #1-1

Radio  
Facility

Site:  
42-GA-2909

ARCO Oil & Gas Company  
Forest Creek Divide Unit #1  
80' FNL, & 2,520' FWL  
Sec 28, T.31S., R.2W.  
Garfield, Utah



# Part A - Administrative Data

## INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM

Form approved for use by

BLM - Utah, Idaho, Nevada, Wyoming

Division of State History - Utah, Wyoming

USFS - Intermountain Region

NPS - Utah, Wyoming

\*1. State No. 42-GA-2909

\*2. Agency No.

3. Temp No. FCD #1-2

4. State Utah

County Garfield

5. Project ARCO Oil &amp; Gas Forest Creek Divide Unit #1

\*6. Report No.

7. Site Name

8. Class ☒ Prehistoric

☐ Historic

☐ Paleontologic

☐ Ethnographic

9. Site Type Short Term Camp

\*10. Elevation 7080 ft.

\*11. UTM Grid Zone 12

411280

m E

4215760

m N

\*12. NW of NW of NE of Section 28 T. 31S R. 2W

\*13. Meridian Salt Lake City

\*14. Map Reference Deep Creek 7.5', 1971.

15. Aerial Photo

16. Location and Access From Utah State Hwy. 22 at the town of Antimony, proceed along the USFS road to Mt. Dutton and the Jones Corral Guard Station 2.8 miles to the access road to ARCO Oil &amp; Gas Forest Creek Divide Unit #1. Turn left. Follow the jeep trail (access road for 0.7 miles to the site, located near the southeast corner of the well pad.

\*17. Land Owner BLM - Kanab Resource Area

\*18. Federal Admin. Units Forest District Cedar City Nat'l Park

\*19. Planning Units (USFS only)

20. Site Description The site is a small, open, short term camp centered around hunting and gathering activities. Four distinct loci are evident. The site is situated on the south side of an east-west trending ridge just below the crest. Artifacts include lithic debitage, biface fragments, projectile points, brown ware ceramics, and a metate fragment. A utilized and a retouched flake were also noted but not collected. There is a commanding view of the surrounding area to the east and south. No features were observed. Destruction by erosion is imminent.

\*21. Site Condition ☐ Excellent (A) ☐ Good (B) ☒ Fair (C) ☐ Poor (D)

\*22. Impact Agent(s) Deflation and slope wash - Little or no grasses to hold soil.

\*23. Nat. Register Status ☒ Significant (C) ☐ Non-Significant (D) ☐ Unevaluated (USFS only) (Z)

Justify The site is likely to yield significant scientific information on the prehistory of the area and should be tested or excavated soon before it erodes away.

24. Photos 12 color prints

25. Recorded by Brian O'Neil

\*26. Survey Organization Powers Elevation/Archaeology Dept.

\*28. Survey Date 9/13/84

27. Assisting Crew Members None

# Part A - Environmental Data

Site No.(s) 42-GS-2909

- \*29. Slope 4 (Degrees) 150 Aspect (Degrees)
- \*30. Direction/Distance to Permanent Water 25 Bearing (Degrees) 2.6 x 100 Meters
- \*Type of Water Source ☐ Spring/Seep (A) ☒ Stream/River (B) ☐ Lake (C) ☐ Other (D)
- Name of Water Source East Fork of Sevier River
- Distance to Nearest Other Water Source/Type 800 meters/spring in Forest Creek Canyon
- \*31. Geographic Unit Basin and Range - Colorado Plateau Transition - Lava Capped

## \*32. Topographic Location (check one under each heading)

PRIMARY LANDFORM	PRIMARY POSITION	SECONDARY LANDFORM	SECONDARY POSITION
<input type="checkbox"/> mountain spine(A)	<input type="checkbox"/> top/crest/peak(A)	<input type="checkbox"/> alluvial fan(A)	<input checked="" type="checkbox"/> top/crest/peak(A)
<input type="checkbox"/> hill(B)	<input checked="" type="checkbox"/> edge(B)	<input type="checkbox"/> alcove/rock shelter(B)	<input type="checkbox"/> edge(B)
<input type="checkbox"/> tableland/mesa(C)	<input type="checkbox"/> slope(C)	<input type="checkbox"/> arroyo(C)	<input type="checkbox"/> slope(C)
<input type="checkbox"/> ridge(D)	<input type="checkbox"/> toe/foot/bottom/mouth(D)	<input type="checkbox"/> basin(D)	<input checked="" type="checkbox"/> ridge/knoll(P)
<input checked="" type="checkbox"/> valley(E)	<input type="checkbox"/> saddle/pass(E)	<input type="checkbox"/> cave(E)	<input type="checkbox"/> slope(O)
<input type="checkbox"/> plain(F)	<input type="checkbox"/> bench/ledge(F)	<input type="checkbox"/> cliff(F)	<input type="checkbox"/> terrace/bench(R)
<input type="checkbox"/> canyon(G)	<input type="checkbox"/> rimrock(G)	<input type="checkbox"/> delta(G)	<input type="checkbox"/> talus slope(S)
<input type="checkbox"/> island(H)	<input type="checkbox"/> interior(H)	<input type="checkbox"/> detached monolith(H)	<input type="checkbox"/> island(T)
		<input type="checkbox"/> dune(I)	<input type="checkbox"/> outcrop(U)
		<input type="checkbox"/> floodplain(J)	<input type="checkbox"/> spring mound/bog(V)
		<input type="checkbox"/> ledge(K)	<input type="checkbox"/> valley(W)
		<input type="checkbox"/> mesa/butte(L)	<input type="checkbox"/> cutbank(X)
			<input type="checkbox"/> riser(Y)

Describe The site is located on the east slope of the Sevier Plateau, east of Mt. Dutton on a ridge top along the western side of the East Fork of the Sevier River and overlooking the river Valley.

## \*33. On-site Depositional Context

<input type="checkbox"/> fan(A)	<input type="checkbox"/> outcrop(Q)	<input type="checkbox"/> moraine(J)	<input type="checkbox"/> desert pavement(P)
<input type="checkbox"/> talus(B)	<input type="checkbox"/> extinct lake(F)	<input type="checkbox"/> flood plain(K)	<input type="checkbox"/> stream bed(R)
<input type="checkbox"/> dune(C)	<input type="checkbox"/> extant lake(G)	<input type="checkbox"/> marsh(L)	<input type="checkbox"/> aeolian(S)
<input type="checkbox"/> stream terrace(D)	<input type="checkbox"/> alluvial plain(H)	<input type="checkbox"/> landslide/slump(M)	<input type="checkbox"/> none(T)
<input type="checkbox"/> playa(E)	<input type="checkbox"/> colluvium(I)	<input type="checkbox"/> delta(N)	<input checked="" type="checkbox"/> residual(U)

Description of Soil Quaternary deposits - light reddish brown sandy loam with gravel and cobbles.

## 34. Vegetation

\*a. Life Zone ☐ Arctic-Alpine(A) ☐ Hudsonian(B) ☐ Canadian(C) ☐ Transitional(D) ☒ Upper Sonoran(E) ☐ Lower Sonoran(F)

### \*b. Community

#### ☒ - Primary On-Site

#### ☒ - Secondary On-Site

#### ☐ - Surrounding Site

Aspen(A)	Other/Mixed Conifer(G)	Grassland/Steppe(M)	Marsh/Swamp(S)
Spruce-Fir(B)	Pinyon-Juniper Woodland(H)	Desert Lake Shore(N)	Lake/Reservoir(T)
Douglas Fir(C)	Wet Meadow(I)	Shadscale Community(O)	Agricultural(U)
Alpine Tundra(D)	Dry Meadow(J)	Tall Sagebrush(P)	Blackbrush(V)
Ponderosa Pine(E)	Oak-Maple Shrub(K)	Low Sagebrush(Q)	Creosote Bush(Y)
Lodgepole Pine(F)	Riparian(L)	Barren(R)	

Describe Scattered pinyon-juniper, sage, native grasses, prickly pear cactus.

## \*35. Miscellaneous Text

## 36. Comments/Continuations/Location of Curated Materials and Records

Artifacts are curated at Southern Utah State College in Cedar City.

List of Attachments:

☒ Part B  
☐ Part C

☒ Topo Map  
☒ Site Sketch

☒ Photos  
☒ Artifact/Feature Sketch

☐ Continuation Sheets  
☐ Other

# Part B - Prehistoric Sites

Site No.(s) 42-GA2909

1. Site Type Short term hunting/gathering camp
- \*2. Culture
 

AFFILIATION	DATING	AFFILIATION	DATING
<u>S. Paiute</u>	<u>400-1700 AD</u>		
3. Site Dimensions
 

SW-NE	36 m x	NW-SE	17 m	*Area	612 sq m
-------	--------	-------	------	-------	----------
- \*4. Surface Collection/Method
 

<input type="checkbox"/> None (A)	<input type="checkbox"/> Designed Sample (C)
<input checked="" type="checkbox"/> Grab Sample (B)	<input type="checkbox"/> Complete Collection (D)

 Sampling Method Diagnostics/patterned tools/sourceable lithics
- \*5. Estimated Depth of Fill
 

<input type="checkbox"/> Surface (A)	<input type="checkbox"/> 20-100 cm (C)	<input type="checkbox"/> Fill noted but unknown (E)
<input checked="" type="checkbox"/> 0-20 cm (B)	<input type="checkbox"/> 100 cm + (D)	

 How Estimated road cut  
 (If tested, show location on site map.)
- \*6. Excavation Status
 

<input type="checkbox"/> Excavated (A)	<input type="checkbox"/> Tested (B)	<input checked="" type="checkbox"/> Unexcavated (C)
--	-------------------------------------	---

 Testing Method \_\_\_\_\_
- \*7. Summary of Artifacts and Debris
 

<input checked="" type="checkbox"/> Lithic Scatter (LS)	<input type="checkbox"/> Isolated Artifact (IA)	<input type="checkbox"/> Burned Stone (BS)
<input checked="" type="checkbox"/> Ceramic Scatter (CS)	<input type="checkbox"/> Organic Remains (VR)	<input checked="" type="checkbox"/> Ground Stone (GS)
<input type="checkbox"/> Basketry/Textiles (BT)	<input type="checkbox"/> Shell (SL)	<input type="checkbox"/> Lithic Source(s)

 Describe Four distinct lithic scatters are evident: Localities A,B,C,D. Locality A contains: 50 white chert, secondary reduction and tertiary flakes, 11 grey white chert reduction flakes, and 2 reddish-brown chert secondary flakes, 2 biface fragments, and 1 utilized flake, locality B contains 29 white chert, secondary and tertiary reduction flakes, 1 reddish-brown, chert, secondary reduction flake, 2 obsidian secondary reduction lakes, and 1 pink-white/grey chert projectile point fragment. Locality C contains 4 mottled grey-white chert, secondary reduction flakes, 3 red/pink secondary reduction flakes, 1 white chert secondary reducing lake, 1 obsidian secondary (see continuation sheet)
- \*8. Lithic Tools
 

#	TYPE	#	TYPE
<u>2</u>	<u>biface fragments</u>		
<u>2</u>	<u>proj. pt. fragments</u>		
<u>1</u>	<u>retouched flake</u>		
<u>1</u>	<u>utilized flake</u>		
<u>1</u>	<u>basin/trough metate</u>		

 Describe 1 white chert biface fragment-projectile point mid-section, approximately 20mm long and 17mm wide by 5mm thick., 1oolitic chert biface fragment-dark point mid-section-approximately 31mm long and 24mm wide by 6mm thick., 2 pink/white mottled chert projectile point fragments-triangular blade, side-notched indented base. See drawings.
- \*9. Lithic Debitage - Estimated Total Quantity
 

<input type="checkbox"/> None (A)	<input type="checkbox"/> 10-25 (C)	<input checked="" type="checkbox"/> 100-500 (E)
<input type="checkbox"/> 1-9 (B)	<input type="checkbox"/> 25-100 (D)	<input type="checkbox"/> 500+ (F)

 Material Type White chert, grey/white chert, red/pink chert, reddish-brown chert.  
 Flaking Stages
 

(0) Not Present	(1) Rare	(2) Common	(3) Dominant
Decortication <u>0</u>	Secondary <u>3</u>	Tertiary <u>2</u>	Shatter <u>1</u> Core <u>0</u>
10. Maximum Density-#/sq m (all lithics) 5/sq. m.

## \*11. Ceramic Artifacts

#	TYPE	#	TYPE
2	S. Paiute		
	utility ware		

Describe coiled- medium brown exterior with dark gray interior. Exterior  
has shallow fingernail indentations giving a somewhat banded appearance.  
Temper is medium to fine and is quartz and basalt (?). Thickness is 5mm  
both are body sherds.

12. Maximum Density-#/sq. m (ceramics) 2/sq. m.

\*13. **Non-Architectural Features** (locate on site map)

- ☐ **Hearth/Firepit (HE)**    ☐ **Rubble Mound (RM)**    ☐ **Earthen Mound (EM)**    ☐ **Water Control (WC)**  
☐ **Midden (MD)**    ☐ **Stone Circle (SC)**    ☐ **Burial (BU)**    ☐ **Petroglyph (PE)**  
☐ **Depression (DE)**    ☐ **Rock Alignment (RA)**    ☐ **Talus Pit (TP)**    ☐ **Pictograph (PI)**

## Describe

N/A

\*14. Architectural Features (locate on site map)

[illegible]

### Describe

N/A

### 15. Comments/Continuations

ARCO Oil & Gas Company  
Forest Creek Divide Unit #1  
Continuation Sheet

Summary of Artifacts and Debris, Description: ...reduction flake, 1 retouched flake, 1 metate fragment, 2 S. Paiute brown sherds & locality D contains 10 secondary reduction flakes and 1 pink/white chert projectile point fragment.



Encoder's Name Brian O'Neil

To be completed for each site form.  
For instructions and codes, see IMACS Users Guide.

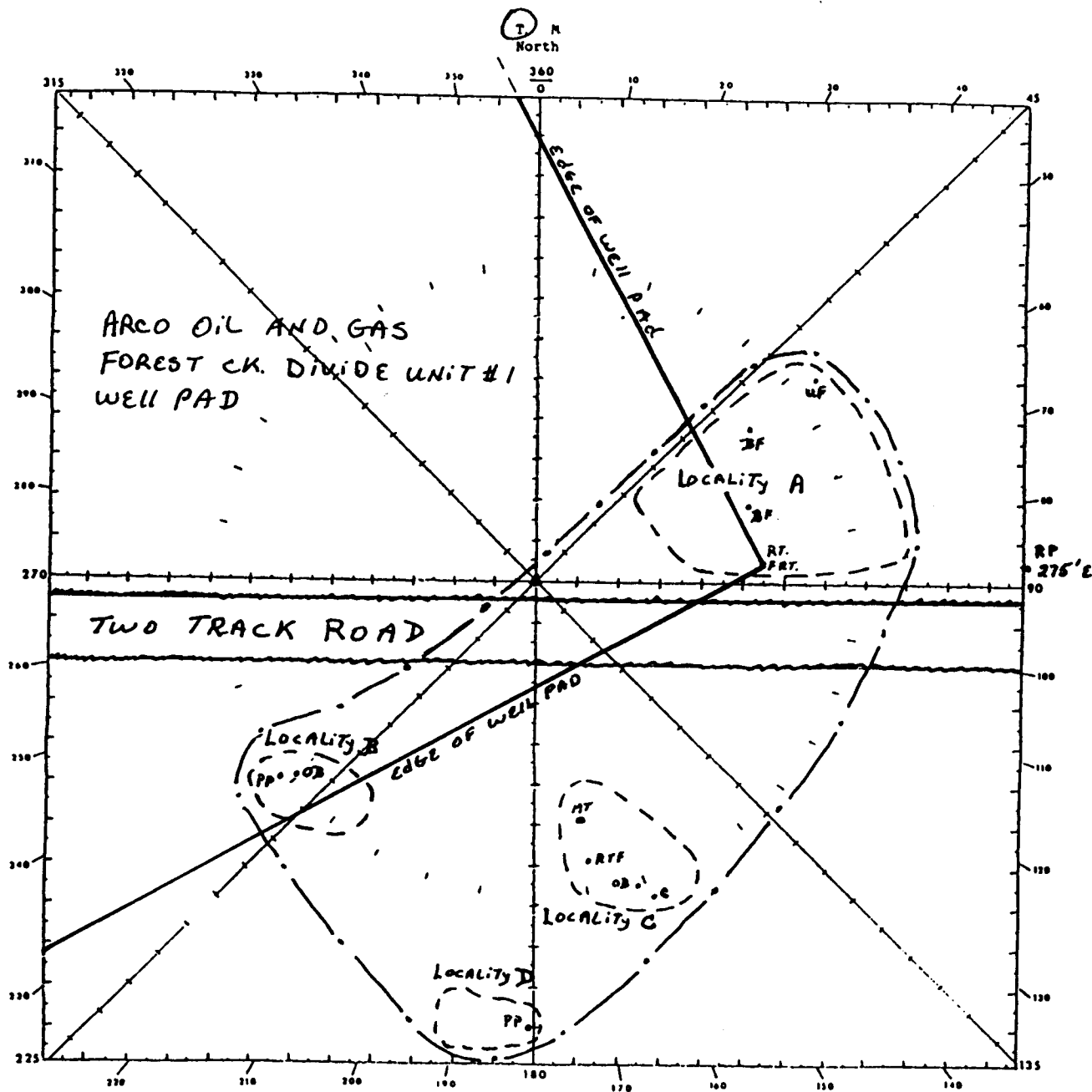
# A

# B

C

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 2 3 4 5 6 7 8 9 0

1984



# ARCO OIL & GAS FOREST CK. DIVIDE UNIT #1

ECDA 1-2 Temp. No. Map of Site No. 42-6A-2909 Scale: 1" = 2 M.

Key Shots:  
 PROJ. PC. FRAG. BIFACE FRAG CERAMICS  
 1) 180°; 22" 3) 54°; 13" 5) 159°; 16" 8"  
 PROJ. PC. FRAG BIFACE FRAG METATE FRAG  
 2) 232°; 16" 4) 49°; 11" 6) 169°; 12"  
 T. 315 R. 2W Sec. 281 1st NW NW NE  
 QUAD. MAP DEEPCK. 7.5' 1971 1/4TH Zone 12

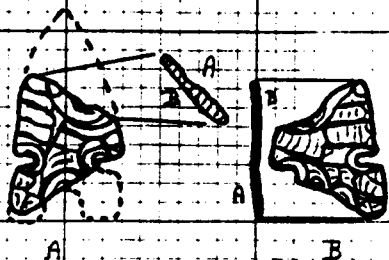
Easting 14111131810/Northing 141311571610

NOTES/KEY: A = DATUM RT. FR. = RIGHT FRONT CORNER OF WELL PAD  
 PP = PROJECTILE POINT BF = BIFACE FRAGMENT  
 C = CERAMICS RP = REFERENCE POINT 275' EAST OF CENTER STAKE  
 MT = METATE FRAGMENT  
 OB = OBSIDIAN FLAKE (161°; 16.5 m. D.)  
 OBSIDIAN FLAKES (231°; 15.5 m. D.)  
 RTF = RETOUCED FLAKE (169°; 14 m. D.) NOT COLLECTED  
 UF = UTILIZED FLAKE (54°; 17 m. D.) NOT COLLECTED  
 --- = CONCENTRATION EXTENT LOCALITIES A, B, C, D  
 - . - . - = VISIBLE SURFACE EXTENT OF SITE  
 QUARTER SECTION CORNER = 324° 46' m. D.  
 METATE FRAGMENT NOT COLLECTED

Date Completed: 9/13/84 Drawn By: BRIAN O'NEIL

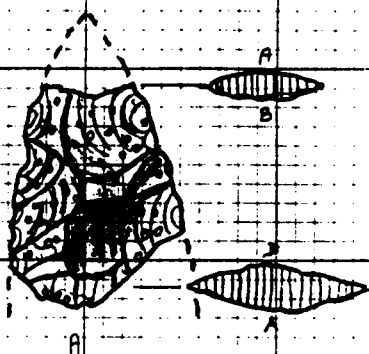
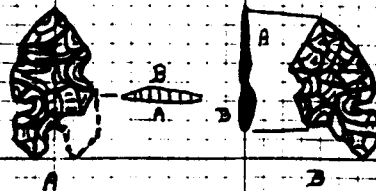
PROJECTILE POINT FRAGMENT

MOTTLED PINK AND WHITE CHERT  
PARALLEL PRESSURE FLAKING. HINGED  
SNAP FRACTURES ON TIP AND  
BASE.



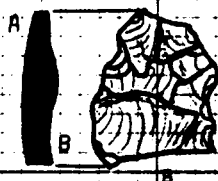
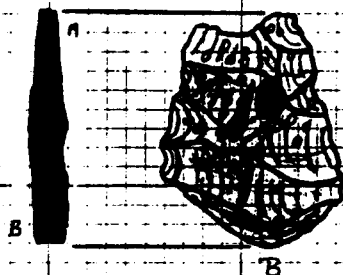
PROJECTILE POINT FRAGMENT

MOTTLED PINK AND WHITE CHERT  
COLATERAL PRESSURE FLAKING  
ASYMMETRICAL NOTCHING. SNAP  
FRACTURE ON BASE.

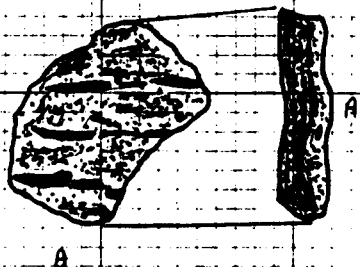


BIFACE FRAGMENT

BANDED OOLITIC CHERT. COLATERAL  
FLAKING PATTERN. SNAP FRACTURES  
AT TIP AND BASE. VERY LITTLE  
PRESSURE RETOUCH.



BIFACE FRAGMENT - DART POINT MIDSECTION  
WHITE CHERT. RANDOM FLAKING PATTERN.  
SNAP FRACTURE AT NOTCHES (BASE OF DRAWING).  
IMPACT-HINGE FRACTURE ON TIP. VERY LITTLE  
PRESSURE RETOUCH.



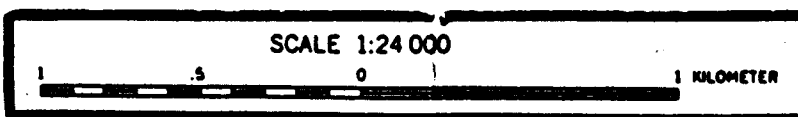
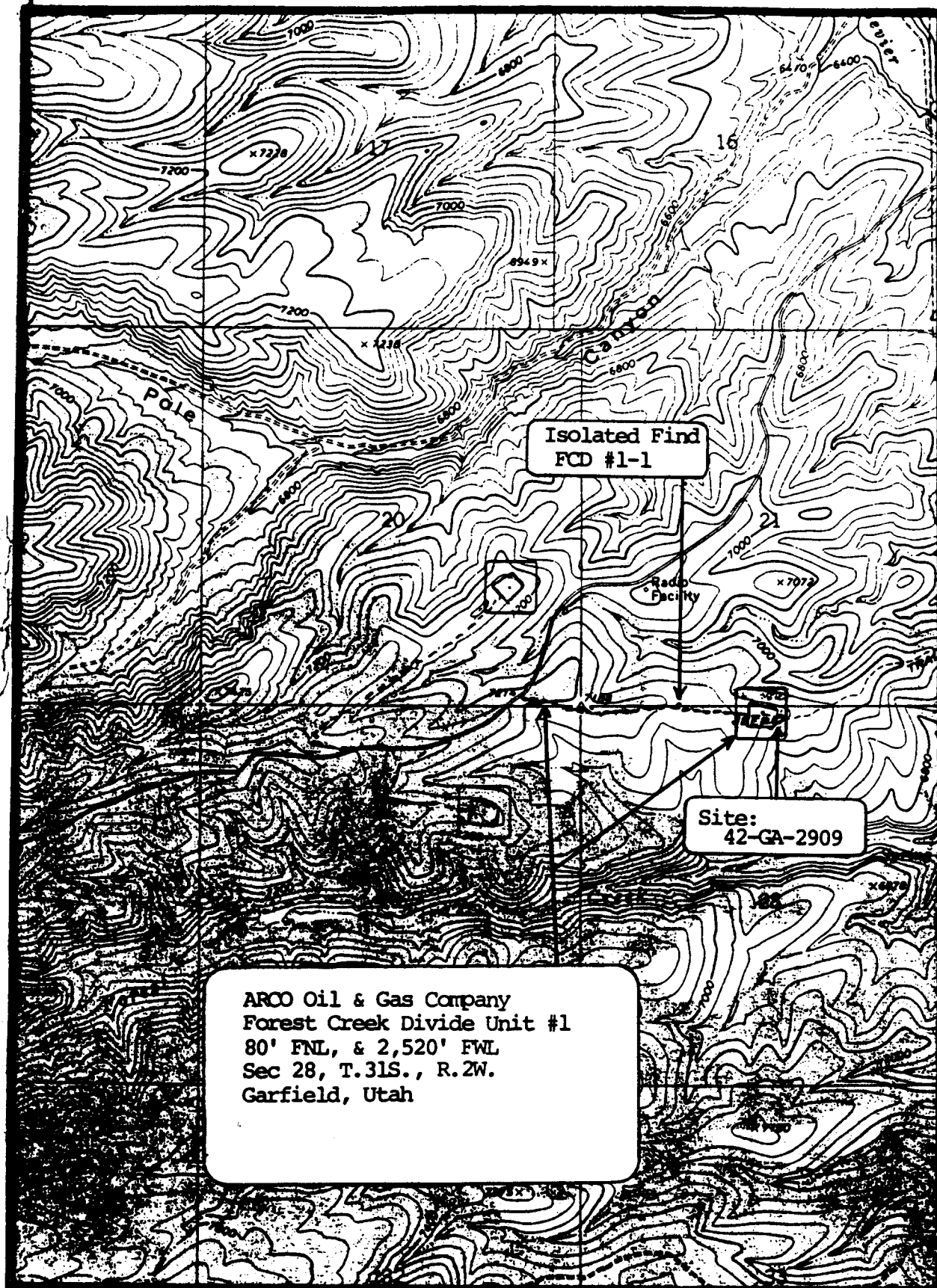
POTTERY SHERDS

MEDIUM BROWN EXTERIOR - COILED WITH  
FINGERNAIL IMPRESSIONS INCISED INTO  
COIL PINCHES. INTERIOR IS DARK GREY.  
MEDIUM TO FINE TEMPER WITH QUARTZ  
GRAINS AND FINE BASALTIC SAND  
TENTATIVELY IDENTIFIED AS SEVIER GREY.  
APPEARS TOO WELL MADE TO BE NUMIC.  
GOOD COMPARATIVE COLLECTION IS NEEDED  
FOR POSITIVE IDENTIFICATION.



B. O'NEIL 9/17/84

COLLECTED ARTIFACTS 42-GA-2909  
ARCO OIL AND GAS  
FOREST CK. DIVIDE UNIT #1





HERITAGE DIVISION  
CULTURAL RESOURCE RECORD

☐ SITE  
☒ ISOLATED FIND

POWERS ELEVATION

PROJECT IDENTIFICATION

1. Site Name \_\_\_\_\_ Field No. FCD #1-1 Site No. FCD #1-1  
Project Name ARCO Oil & Gas Forest Creek Divide Unit #1  
Landowner Status Kanab Resource Area - Cedar City District  
Federal (Specify Agency) BLM State \_\_\_\_\_ County \_\_\_\_\_ Indian \_\_\_\_\_ Private \_\_\_\_\_  
2. Recorded by B. O'Neil Date 9/12/84 Permit No. 84-UT-218;  
State: U-84-5-59B.

LOCATION

3. State Utah County Garfield  
20 ft. FNL, 1350 ft. FWL; NE 1/4 NE 1/4 NE 1/4 NW 1/4, Sec 28, T 31S, R 2W  
UTM Zone 12 Easting 4 / 1 / 0 / 8 / 5 / 0 Northing 4 / 2 / 1 / 5 / 8 / 3 / 1 PM SLC  
Quad Name & Series Deep Creek, 7.5' 7.5' ☒ 15' ☐ Year 1971  
4. ACCESS: ☐ foot ☒ car ☐ 4-Wheel drive; ☐ fencing (?) ☐ signs (?)  
Directions to Site (include nearest roads, community, direction, etc.): From Utah  
State Hwy. 22 at the town of Antimony, proceed along the USFS Rd. to Mt. Dutton and  
the Jones Corral Guard Station 2.8 miles to the jeep trail. Turn left. follow  
trail (access Rd. to ARCO Oil & Gas Forest Creek Divide Unit #1) .4 of a mile  
to site.

ARTIFACT ASSEMBLAGE

5. Artifact Description (include material, lithic, ceramic, structures, bone, etc., dimensions, morphology, diagnostic or not, inferred function, etc.):  
Isolated find consists of one historic broken bottle-square-purple glass--inscription  
reads, "Kennedys East Indian Bitters, Iler & Co., Omaha, Nebraska" Height=9inches  
Base= 3 inches square, Neck/mouth opening= .75"  
6. Cultural Affiliation Euroamerican Time Period 1882-1901  
7. Surface Collection ☒ yes ☐ no (if yes, attach list); Methodology \_\_\_\_\_  
All visible pieces of glass (see photos attached)  
8. Artifacts permanent repository Southern Utah State College - Cedar City  
9. Artifact drawings made? ☐ yes ☒ no (if yes, attach list).  
10. Photo? ☒ yes ☐ no Powers Elevation - Grand Junction file location.

ATTACH A PHOTOCOPY OF USGS QUAD MAP, SHOWING SITE OR ISOLATED FIND CLEARLY.

\*\* Write in narrative form, using complete grammatical sentences.

## ENVIRONMENTAL DATA

11. Description of Physiography (include bedrock and local outcrops): East - Northeast  
trending ridges on the east flank of the Sevier Plateau. Farmed through dissection  
of the Quichapa Formation by intermittent and permanent tributaries to the East  
Fork of the Sevier River. Latite and basaltic cobbles are common from  
Quaternary deposits.

12.

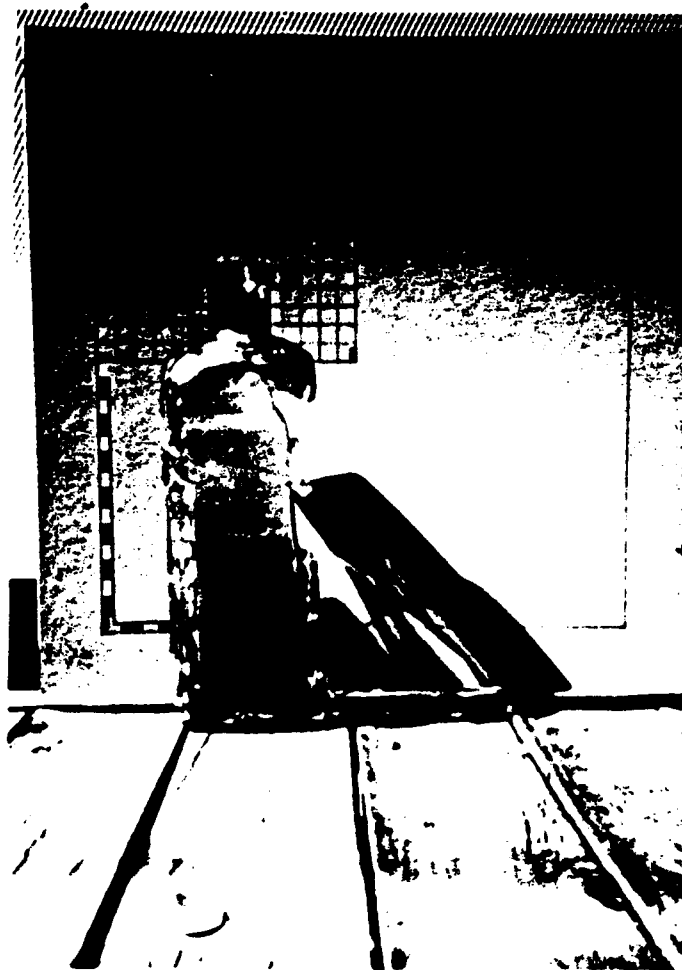
PRIMARY LANDFORM		DEPOSITIONAL ENVIRONMENT																	
		arroyo, wash etc.	cliff	outcrop	cave/shelter	fan/delta	alluvial/ colluvial plain	talus	moraine	mound	stream terrace	stream bed	flood plain	playa	marsh	shore/beach	island	badlands	Bridge
X	Mountains																		
	Hill																		
	Plain																		
	Valley																		
	Canyon																	X	

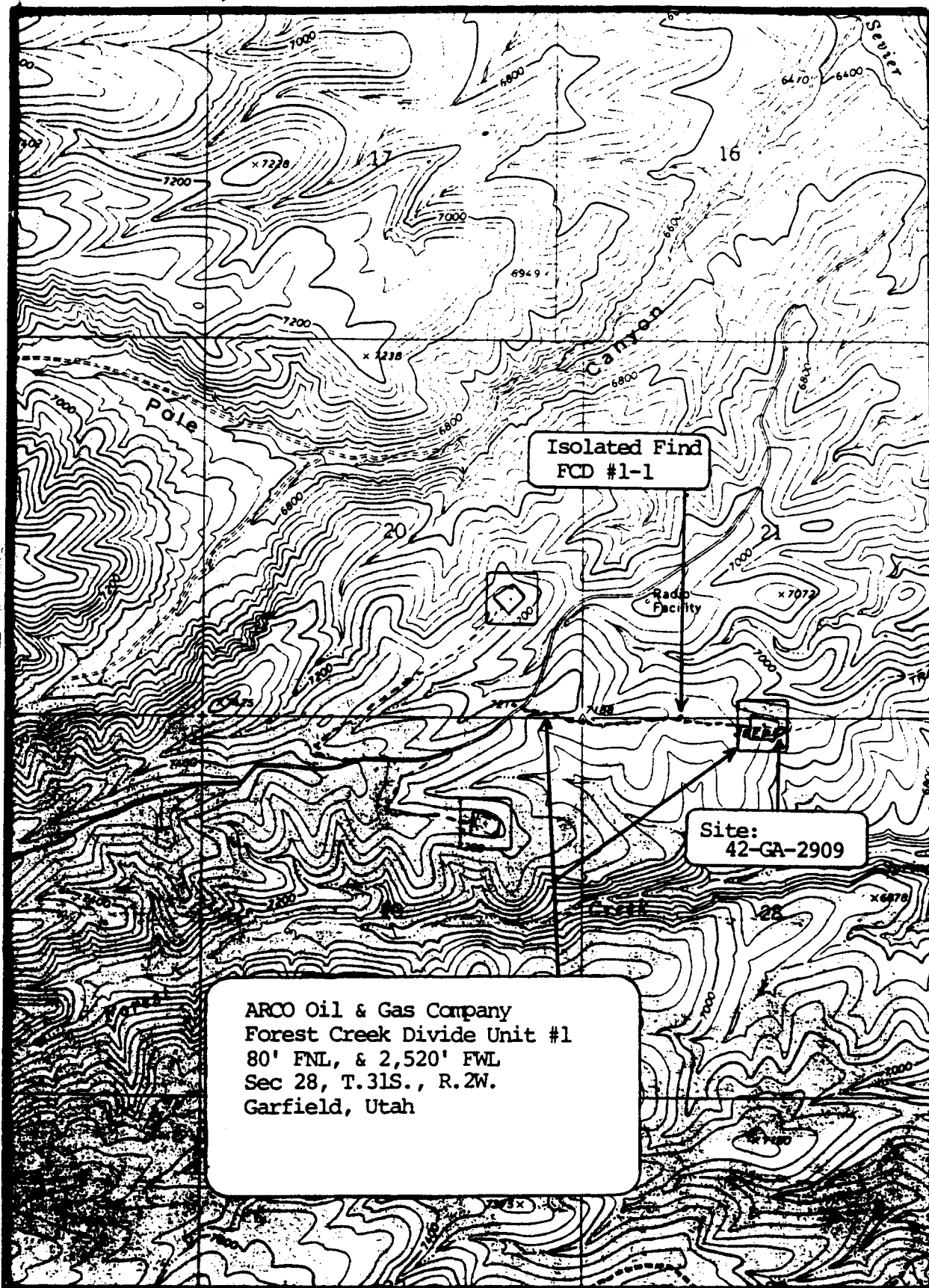
TOPOGRAPHIC LOCATION		XX	top/crest/peak	foot/bottom/base	rim
			edge	saddle/pass	cutbank
	slope/side	bench/ledge			

13. Soil Type (include color, texture, depth, etc.): Light Reddish/brown sandy loam  
mixed with large quantities of gravels and cobbles. Depth of Quaternary deposits  
is estimated at 120 ft. Site depth is 5-10cm.
14. Vegetation (general type in area; life zones, community, habitat, etc.): Upper  
Sonoran Life zone composed of piñon-juniper/sage communities with native grasses  
and prickly pear cactus.
15. Water: Direction to: NNE (25°) Distance to permanent water: 2.75 km.  
 Type/Name Permanent - East Fork of Sevier River  
 Distance to nearest other water: SE (120°) Forest Creek - intermittent 7 spring
16. Contemporary fauna: Mule Deer  
observed X tracks X spore call
17. Ground visibility: 95 %.
18. Elevation: 7,150 feet 2,179 meters (ft. x .3048).

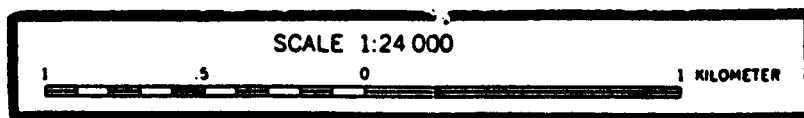
ARCO Oil & Gas Company  
Forest Creek Divide Unit #1  
20' FNL, & 1,350' FWL,  
NE $\frac{1}{4}$ , NE $\frac{1}{4}$ , NE $\frac{1}{4}$ , NW $\frac{1}{4}$   
Sec 28, T.31S., R.2W.  
Garfield, Utah



Isolated Find FCD #1-1  
Historic Bottle  
"Kennedy's East Indian Bitters"  
Iler & Co., Omaha, Nebraska.



ARCO Oil & Gas Company  
Forest Creek Divide Unit #1  
80' FNL, & 2,520' FWL  
Sec 28, T.31S., R.2W.  
Garfield, Utah





ARCO Oil and Gas Company  
Rocky Mountain District  
707 17th Street  
Mailing address: P.O. Box 5540  
Denver, Colorado 80217  
Telephone 303 293 4600



October 5, 1984

Mr. Virge Brown  
Otter Creek Reservoir Company  
P.O. Box 15  
Annabella, Utah 84711

RE: Culvert Installation  
Forest Creek Divide Unit #1  
Garfield County, Utah

Dear Mr. Brown:

This letter serves as an agreement between ARCO Oil & Gas Company and Otter Creek Reservoir Company, for ARCO to adhere to all stipulations as stated below in regards to installation of a culvert for the access road to the Forest Creek Divide Unit #1 well to be drilled in Garfield County, Utah:

1. The culvert will be 6' in diameter and is to be located upstream from the diversion gates to be certain not to cause interference with present irrigation in SE/4 SE/4, Section 16-T31S-R2W, Garfield County, Utah.
2. If the well is plugged and abandoned, the area will be restored to original conditions in as much as is possible.
3. If the well is productive, the culvert will be removed after completion operations and a permanent structure will be installed.
4. ARCO will be responsible for any damages resulting from overflow if the culvert is not removed prior to spring run off.

If you have any questions regarding this agreement, please contact me at (303)293-1077.

Sincerely,

Suzanne M. Barnes  
Drilling Engineer JES

KUD

SMB/gc  
cc: Well file

DATE 10-9-84

SEC NE NW 28 T 31S R 24W COUNTY Garfield

TYPE OF LEASE

## INDEX

**HL**



☐ NID

☐ PI

7

**MAP**



11

Unit approved 10/15/84 - Area A-M  
Need water permits

SPACING: ☒ A-3 Trust Creek Divide  
UNIT

c-3-a CAUSE NO. & DATE

**□ c-3-b**

c-3-c

1- Water

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER \_\_\_\_\_

☒ UNIT \_\_\_\_\_

☐ c-3-b

☐ c-3-c

☒ CHECK DISTANCE TO NEAREST WELL.

☐ CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☐ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

October 15, 1984

Arco Oil and Gas Company  
A Division of Atlantic Richfield Company  
P. O. Box 5540  
Denver, Colorado 80217

Gentlemen:

Re: Well No. Forest Creek Divide Unit #1 - NE NW 28, T. 31S R. 2W  
130' FNL, 2435' FWL - Garfield County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

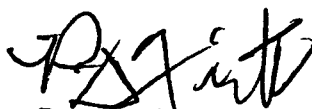
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2  
Arco Oil and Gas Company  
Well No. Forest Creek Divide Unit #1  
October 15, 1984

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-017-30127.

Sincerely,

A handwritten signature in black ink, appearing to read "R. J. Firth". The signature is stylized with a large, looped "F" and a trailing "th".

R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Other Abstracts as on  
reverse side

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL ☒ DEEPEN ☐ PLUG BACK ☐  
b. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ OTHER ☐  
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR  
ARCO Oil and Gas Co., A Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR  
P.O. Box 5540, Denver, CO 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
\*130' SURFACE 2435' FWL (NE/4 NW/4) Sec.28-T31S-R2W S.L.M.

At proposed prod. zone approx. the same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE  
Approx 3.5 miles SW of Antimony, Utah

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any) 2435'

19. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. NA

16. NO. OF ACRES IN LEASE

5304.07

19. PROPOSED DEPTH

3800'

17. NO. OF ACRES ASSIGNED TO THIS WELL

Not assigned

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether SP, RT, GR, etc.)

Ground elevation: 7085'

22. APPROX. DATE WORK WILL START

October 20, 1984

23. PROPOSED CASING AND CEMENTING PROGRAM

RECEIVED

OCT 22 1984

DIVISION OF OIL  
& MINING

24. SIGNED [Signature] HRE TITLE Operations Manager DATE 26 SEPT. 1984  
MATTY B. NOISE  
(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE  
APPROVED BY [Signature] TITLE District Manager DATE 18 Oct. 1984  
CONDITIONS OF APPROVAL, IF ANY

Conditions of Approval are attached

NOTICE OF APPROVAL

\*See Instructions On Reverse Side

CONDITIONS OF APPROVAL  
ATTACHED TO OPERATORS  
COPY

FLAIRING OR VENTING  
OF GAS IS SUBJECT TO  
NTL-4 DATED 1/1/80



FORM F-106

- Record GLO plat 17  
 Found corner  
 ( ) Field measure

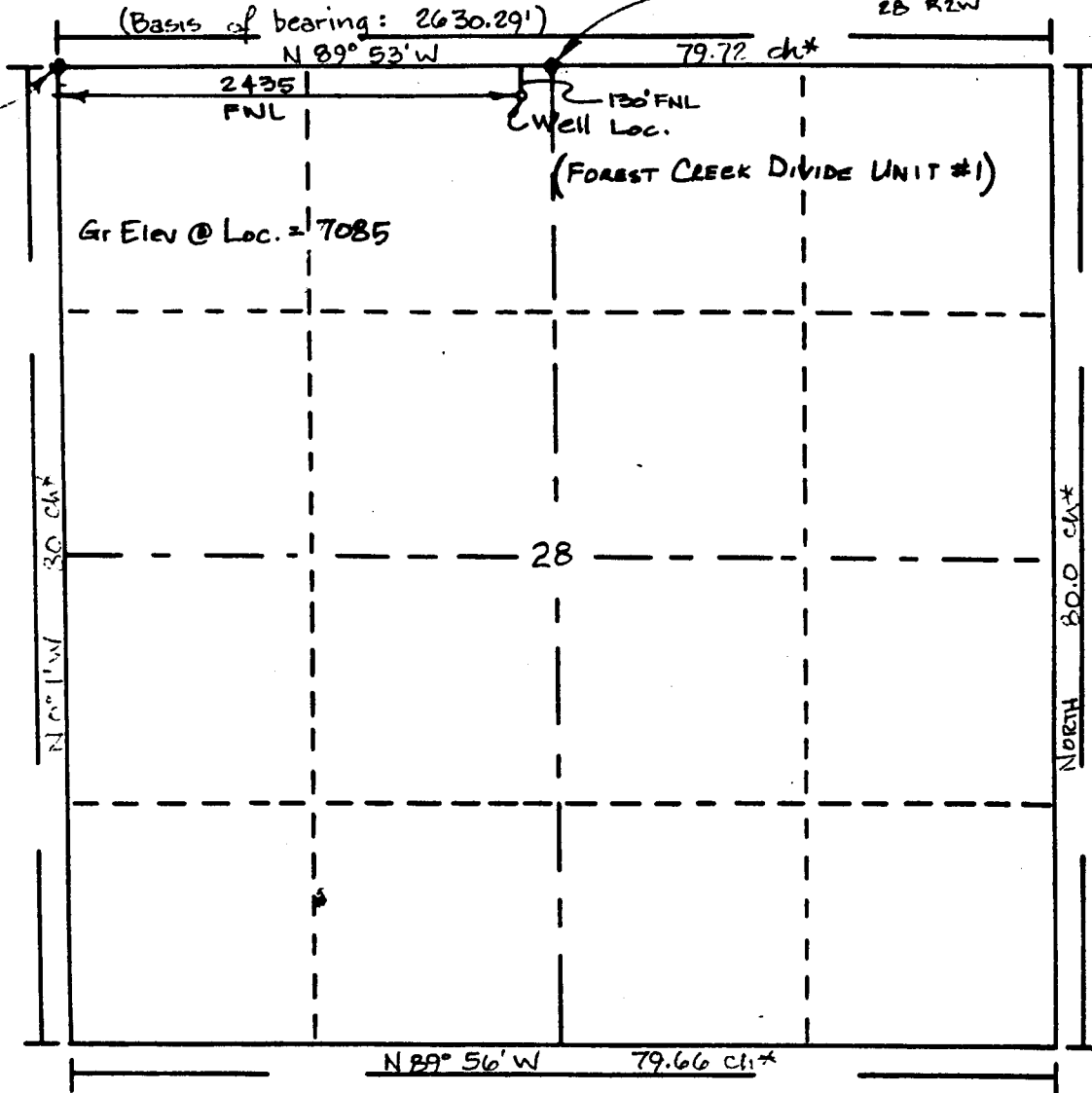
EXHIBIT "B"

Found GLO 1913 B.C.  
 marked

R. 2 W.

Found GLO 1913 B.C.  
 marked 1/4  $\frac{21}{28}$  T31S  
 $\frac{21}{28}$  R2W

21 T31S  
 29 28 R2W  
 1/4 rock pile



Scale... 1" = 1000'

**Powers Elevation of Denver, Colorado**

has in accordance with a request from HARRY ENGLE  
 for ARCO OIL & GAS

determined the location of FOREST CREEK DIVIDE UNIT #1

to be 130' FNL & 2435' FNL of Section 28 Township 31 South  
 Range 2 West of the SALT LAKE Meridian

GARFIELD County, UTAH

DEPT. OF INTERIOR  
 BUREAU OF LAND MGMT.

OCT 1 - 1984

RECEIVED  
 BUREAU OF LAND MGMT.

Date: Sept. 21, 1984

I hereby certify that this plat is an  
 accurate representation of a correct  
 survey showing the location of

E. Samuel Stegeman  
 Licensed Engineer

No. 20596  
 State of COLORADO "Utah exception"



T. 31 S.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company: ARCO Oil & Gas Company

Well No: Forest Creek Divide Unit #1

Location: 130' FNL 2435' FWL NE $\frac{1}{4}$ NW $\frac{1}{4}$

Lease No: U-52169

Sec 28, T.31S., R.2W., SLB&M

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR 3160), approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned shall be identified in accordance with 43 CFR 3162.6. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 3160-5). Unless the plugging is to take place immediately upon receipt of oral approval, the District Manager must be notified at least 48 hours in advance of the plugging of the well in order that the representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 3160-5) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a followup report on Form 3160-5 should be filed when all surface restoration has been completed and the location is considered ready for final inspection.



4. The spud date will be reported orally to the respective District Manager's office within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Office on a frequency and form or method as may be acceptable to the District Manager.

In accordance with NTL-1, this well must be reported on Form 3160-6 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with Royalty Management Accounting Center, Minerals Management Service, P.O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Manager. "Sundry Notices and Reports on Wells" (Form 3160-5) must be filed for all changes of plans and other operations in accordance with 43 CFR 3162.4.1. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alteration of the facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Manager.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with Onshore Oil and Gas Order No. 1; VIII. Reports and Activities Required after Well Completion. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cutting, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values are not involved at this location. Accordingly, you must notify the District Manager at least 24 hours prior to commencing field operations to allow this office to have personnel present for consultation during the construction of roads and locations.

The Cedar City District Office Address is:

1579 North Main, Cedar City, Utah 84720  
(801) 586-2401

Your contact is: Theron Mitchell  
Office Phone: (801) 586-2401  
Home Phone (801) 826-4347 or 586-2719

7. Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Manager's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact this office 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communications, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address and telephone number.
  - b. Well name and number.
  - c. Well location ( $\frac{1}{4}$ ,  $\frac{1}{4}$  Section, Township, Range and Prime Meridian).
  - d. Date was placed in a producing status.
  - e. The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.
  - f. The OCS, Federal or Indian lease prefix and number of which the well is located, otherwise, the non-Federal or non-Indian land category, i.e. State or private.
  - g. If appropriate, the unit agreement name, number and participating area name.
  - h. If appropriate, the communication agreement number.

## SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

Mud pits shall be based in at least four feet of cut material, that is with at least four feet of the pit below the existing ground surface, with any embankment of fill material key seated to ensure pit stability and fluid retention. Lining of pit is not considered necessary.

Reclamation shall include contouring of the pad to blend with land-forms in the general area, redistribution of top soil and seeding. Seeding shall be accomplished during the period of September to December. A seed mix and seeding method will be provided by the BLM Escalante Resource Area with the advent of reclamation.

Upon completion of drilling operations, the Cedar City District Office shall be notified of production and/or reclamation plans so that an inspection may be conducted to determine if mitigating measures in addition to those included in the surface use plan or presented hereby are necessary.

ARCO Oil and Gas Company  
Rocky Mountain District  
707 17th Street  
Mailing address: P.O. Box 5540  
Denver, Colorado 80217  
Telephone 303 293 4600



RECEIVED

NOV 13 1984

DIVISION OF OIL  
GAS & MINING

November 9, 1984

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Re: Monthly Report of Operations  
Well No. Forest Creek Divide Unit #1  
NE NW, Sec. 28-31S-2W  
Garfield Co., Utah

Gentlemen:

Attached, in duplicate, is the Monthly Report of  
Operations for the month of October,  
19 84, on the subject well.

This well was spudded on October 31, 1984.

Very truly yours,

*B. R. Still*

B. R. Still  
Supervisor, Operations Info. Group

BRS:af

RIGHT HOLE  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		5. <b>LEASE DESIGNATION AND SERIAL NO.</b> U-52169
2. <b>NAME OF OPERATOR</b> ARCO Oil and Gas Company, Division of Atlantic Richfield Company		6. <b>IF INDIAN, ALLOTTEE OR TRIBE NAME</b> NA
3. <b>ADDRESS OF OPERATOR</b> P.O. Box 5540, Denver, Colorado 80217		7. <b>UNIT AGREEMENT NAME</b> Forest Creek Divide
4. <b>LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 130' FNL & 2435' FWL NE/4 NW/4		8. <b>FARM OR LEASE NAME</b> NA
14. <b>PERMIT NO.</b> 43-017-30127		9. <b>WELL NO.</b> Divide Unit #1
15. <b>ELEVATIONS</b> (Show whether DF, RT, GR, etc.) 7085' GL		10. <b>FIELD AND POOL, OR WILDCAT</b> Wildcat
		11. <b>SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> 28-31S-2W
		12. <b>COUNTY OR PARISH</b> Garfield
		13. <b>STATE</b> Utah

**CONFIDENTIAL**

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

**NOTICE OF INTENTION TO:**

TEST WATER SHUT-OFF <input type="checkbox"/>	PLUG OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

**SUBSEQUENT REPORT OF:**

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

MI & RU Anderson Myers Rig #7; 22" hole due to 78' and 16" pipe set @ 92'KB. SPUD 14-3/4" hole 11-1-84. Drilled ahead to 1185'. RU and ran 29 jts 10-3/4" 40.5#, K-55, STC casing and set @ 1185'. Cemented with 300 sx lite + 3% CaCl<sub>2</sub> + 1/4#/sx flocele followed by 500 sx Class "H" with 2% CaCl<sub>2</sub> and 1/4#/sx flocele. Good circulation. Tested BOPE to 250 psi for 5 mins and 3000 psi for 15 mins - held OK.

Drilling ahead 11-8-84.

**RECEIVED**

**NOV 13**

**DIVISION OF OIL  
GAS & MINING**

18. I hereby certify that the foregoing is true and correct

SIGNED L.B. Morse  
L.B. Morse

TITLE Operations Manager

DATE 11-8-84

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Form 3160-6  
(November 1983)  
(Formerly 9-329)

MONTHLY REPORT  
OF  
OPERATIONS

Lease No. U-52169  
Communitization Agreement No. \_\_\_\_\_  
Field Name Utah High Plateau  
Unit Name \_\_\_\_\_  
Participating Area \_\_\_\_\_  
County Garfield State UT  
Operator Atlantic Richfield Co.

☐ Amended Report (Forest Creek Divide Unit #1)

The following is a correct report of operations and production (including status of all unplugged wells) for the month of October, 19 84

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
1	NE NW Sec. 28	31S	2W	DRG	0	0	0	0	This well was spudded on Oct. 31, 1984.  Please see attached drilling report.

RECEIVED

NOV 13 1984

DIVISION OF OIL  
GAS & MINING

\*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	0	0	0
*Sold	0	0	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	0	XXXXXXXXXXXXXXXXXX
*Used on Lease	0	0	XXXXXXXXXXXXXXXXXX
*Injected	0	0	0
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	0
*Other (Identify)	0	0	0
*On hand, End of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	0	0	XXXXXXXXXXXXXXXXXX

Authorized Signature: B. R. Steel  
Title: Supervisor, Operations Info. Group

Address: P.O. Box 5540, Denver, CO 80217

Page 1 of 1

District	County or Parish		State
Rocky Mountain	Garfield		Utah
Field	Lease or Unit		Well no.
Utah High Plateau	Forest Creek Divide Unit		#1
10/26/84	Day -1.	Drld 22" hole to 78' GL. Set cond & strt RU today. (PTD: 3800')	
10/27-29	Day -4.	Cont RU. Set 16" cond @ 78' GL.	(16" @ 78' GL)
10/30/84	Day -5.	Cont RU. Expect to spud 10/31/84.	(16" @ 78' GL)
10/31/84	Day -6.	Mix mud. Cont RU. Expect to spud today.	(16" @ 78' GL)
11/1/84 174	Day-1 (82') - Drlg.	(16" @ 92' KB)	
	MW: 8.7#	Vis: 60	Pv/Yp: 10/47
	Cont RU. Mix mud. PU DC. <u>SPUD 2230 hrs 10/31/84.</u> Drld 14-3/4" hole to PD.		

ORAL APPROVAL TO PLUG AND ABANDON WELL

File

Operator ARCO Representative Suzanne Barnes  
Forest Creek Divide  
 Well No. Unit #1 Location 1/4 1/4 Section 28 Township 31S Range 2W  
 County Garfield Field \_\_\_\_\_ State \_\_\_\_\_

Unit Name and Required Depth \_\_\_\_\_ Base of fresh water sands \_\_\_\_\_

T.D. 3680' Size hole and Fill per sack \_\_\_\_\_ " \_\_\_\_\_ Mud Weight \_\_\_\_\_ #/gal. \_\_\_\_\_

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements		
				From	To	Sacks Cement
<u>10 3/4"</u>	<u>1185'</u>			<u>(1) 3170</u>	<u>3370</u>	
				<u>(2) 1050</u>	<u>1300</u>	
				<u>(3) 4</u>	<u>200</u>	
Formation	Top	Base	Shows			
<u>Volcanics</u>	<u>Surt.</u>	<u>1500'</u>				
<u>Claron</u>	<u>1500'</u>					
<u>Carmel</u>	<u>3030'</u>					
<u>Navajo</u>	<u>3375'</u>					

REMARKS

DST's, lost circulation zones, water zones, etc., \_\_\_\_\_

Approved by IRB Date 11/20/84 Time 1400 a.m. p.m.

- App'd by Assad Rattoul



ARCO Oil and Gas Company  
Rocky Mountain District  
707 17th Street  
Mailing address: P.O. Box 5540  
Denver, Colorado 80217  
Telephone 303 293 4600



December 10, 1984

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Re: Monthly Report of Operations  
Well No. Forest Creek Divide Unit #1  
NE NW, Sec. 28-31S-2W  
Garfield Co., Utah

Gentlemen:

Attached, in duplicate, is the Monthly Report of  
Operations for the month of October,  
19 84, on the subject well.

This well was spudded on October 31, 1984.

Very truly yours,

B. R. Still  
Supervisor, Operations Info. Group

BRS:af

Divide Unit #1  
NE NW Section 28-31S-2W  
Garfield County, Utah

**CONFIDENTIAL**

11/1/84	174	Day-1 (82') - Drlg. MW: 8.7# Vis: 60 Pv/Yp: 10/47 Cont RU. Mix mud. PU DC. SPUD 2230 hrs 10/31/84. Drld 14-3/4" hole to PD.	(16" @ 92' KB)
11/2/84	195	Day-2 (21') - Pmpg LCM. MW: NA Vis: 45-50 Pv/Yp: NA Drld 14-3/4" hole to PD. Lost returns. Mix & pmpd LCM & attempt to regain returns w/o success.	(16" @ 92' KB)
11/3-5/84	1185	Day-5 (990') - Rng 10-3/4" csg. MW: 9.2 Vis: 55 Pv/Yp: 17/18 Drld 14-3/4" hole to PD w/TFNB @ 639' & partial lost returns. POH. Rng 10-3/4" csg. Surveys: 1/4° @ 163', 1-1/4° @ 340', 1° @ 459', 620', 857' & 1160'.	(16" @ 92' KB)
11/6/84	1185	Day-6 (0') - NU BOPs. MW: NR Vis: NR Pv/Yp: NR Ran 10-3/4", 40.5#, K-55, STC csg & lnd @ 1185'. Cmt w/300 sx Howco lite + add foll'd by 500 sx "H" + add w/full returns & 30 bbls cmt to surf. WOC. Cut off csg & weld on wellhd. NU BOPs.	(10-3/4" @ 1185')
11/7/84	1185	Day-7 (0') - TIH w/magnet. MW: NR Vis: NR Pv/Yp: NR Fin NU & press tst BOPE.	(10-3/4" @ 1185')
11/8/84	1345	Day-8 (160') - Drlg. MW: 8.9# Vis: 42 Pv/Yp: 10/16 RIH w/magnet. POH, rec'd jk. RIH w/B#3. DO cmt & shoe. Drld 9-7/8" hole to PD. Rldn time - 3-1/2 hrs.	(10-3/4" @ 1185')
11/9/84	2165	Day-9 (820') - Drlg. MW: 9.0# Vis: 43 Pv/Yp: 12/11 Drld 9-7/8" hole to PD. Survey: 1° @ 1610'.	(10-3/4" @ 1185')
11/10-13	3279	Day-13 (1114') - Fishing. MW: 9.0# Vis: 43 Pv/Yp: 9/5 Drld 9-7/8" hole to PD w/TFNB @ 2618'. Twisted off between 8" & 6-3/4" DCs. POH. PU fshg tools. RIH. Engage fsh w/OS. Surveys: 2° @ 2170', 1° @ 2360', 3/4° @ 2550', 1-1/4° @ 3016'.	(10-3/4" @ 1185')

TIGHT HOLE  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP DATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-52169
2. NAME OF OPERATOR ARCO Oil and Gas Company, Division of Atlantic Richfield Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
3. ADDRESS OF OPERATOR P.O. Box 5540, Denver, Colorado 80217		7. UNIT AGREEMENT NAME Forest Creek Divide
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 130' FNL & 2435' FWL NE/4 NW/4		8. FARM OR LEASE NAME NA
14. PERMIT NO. 43-017-30127		9. WELL NO. Divide Unit #1
15. ELEVATIONS (Show whether OF, RT, CR, etc.) 7085' GL		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., E., OR BLK. AND SURVEY OR AREA 28-31S-2W
		12. COUNTY OR PARISH Garfield
		13. STATE Utah

CONFIDENTIAL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Drilled ahead. Core #1 3385-3403. Core #2-jammed. Core #3 3428-3434.  
Core #4-jammed. Core #5 3441-3446. Core #6 3461-3465. Logged @ 3680.  
Propose to P & A as follows: Plug #1 3370-3170  
Plug #2 1300-1050  
Plug #3 200-Surf

Verbal approved received from:

John Bazza - State Oil & Gas Commission 11-19-84  
Assad Raffouj - State BLM office 11-19-84

RECEIVED  
DEC 13 1984

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED L.B. Morse TITLE Operations Manager DATE 12-11-84  
L.B. Morse

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED  
APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

\*See Instructions

DATE 12/19/84  
BY: John R. Bazza

TIGHT HOLE  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.  
U-52169

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

Forest Creek Divide

8. FARM OR LEASE NAME

NA

9. WELL NO.

Divide Unit #1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SUBST. OR AREA

28-31S-2W

12. COUNTY OR PARISH

Garfield

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

ARCO Oil and Gas Company, Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR

P.O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

130' FNL & 2435' FWL NE/4 NW/4

14. PERMIT NO.

43-017-30127

15. ELEVATIONS (Show whether DF, RT, CM, etc.)

7085' GL

CONFIDENTIAL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Finished logged. PLUGGED AND ABANDONED AS FOLLOWS:

Plug #1 3370'-3170' 112 sx Class "A" cement  
Plug #2 1300'-1050' 119 sx Class "A" cement tagged plug  
Plug #3 200'-Surface 95 sx Class "A" cement

Strip cellar and clean tanks.

Released rig 11-21-84.

Cedar City BLM representative on location.

RECEIVED  
DEC 13 1984  
DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

L.B. Morse

TITLE Operations Manager

DATE 12-11-84

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED  
APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

\*See Instructions on Reverse Side

DATE

BY

TIGHT HOLE

Divide Unit #1  
NE NW Section 28-31S-2W  
Garfield County, Utah

**CONFIDENTIAL**

PLUGGED AND ABANDONED AS FOLLOWS:

Plug #1	3370' - 3170'	112 sx Class "A" cement
Plug #2	1300' - 1050'	119 sx Class "A" cement
Plug #3	200' - Surface	95 sx Class "A" cement

Field		Lease or Unit	Well no
Utah High Plateau		Forest Creek Divide I	#1
Auth. or W.Q. no.		Title	
#R28518		Exploratory	API #43-017-30127
11/1/84 174	Day-1 (82') - Drlg. MW: 8.7# Vis: 60 Pv/Yp: 10/47 Cont RU. Mix mud. PU DC. SPUD 2230 hrs 10/31/84. Drld 14-3/4" hole to PD.	(16" @ 92' KB)	
11/2/84 195	Day-2 (21') - Pump LCM. MW: NA Vis: 45-50 Pv/Yp: NA Drld 14-3/4" hole to PD. Lost returns. Mix & pumpd LCM & attempt to regain returns w/o success.	(16" @ 92' KB)	
11/3-5/84 1185	Day-5 (990') - Rng 10-3/4" csg. MW: 9.2 Vis: 55 Pv/Yp: 17/18 Drld 14-3/4" hole to PD w/TFNB @ 639' & partial lost returns. POH. Rng 10-3/4" csg. Surveys: 1/4° @ 163', 1-1/4° @ 340', 1° @ 459', 620', 857' & 1160'.	(16" @ 92' KB)	
11/6/84 1185	Day-6 (0') - NU BOPs. MW: NR Vis: NR Pv/Yp: NR Ran 10-3/4", 40.5#, K-55, STC csg & lnd @ 1185'. Cmt w/300 sx Howco Lite + add foll'd by 500 sx "H" + add w/full returns & 30 bbls cmt to surf. WOC. Cut off csg & weld on wellhd. NU BOPs.	(10-3/4" @ 1185')	
11/7/84 1185	Day-7 (0') - TIH w/magnet. MW: NR Vis: NR Pv/Yp: NR Fin NU & press tst BOPE.	(10-3/4" @ 1185')	
11/8/84 1345	Day-8 (160') - Drlg. MW: 8.9# Vis: 42 Pv/Yp: 10/16 RIH w/magnet. POH, rec'd jk. RIH w/B#3. DO cmt & shoe. Drld 9-7/8" hole to PD. Ric dn time - 3-1/2 hrs.	(10-3/4" @ 1185')	
11/9/84 2165	Day-9 (820') - Drlg. MW: 9.0# Vis: 43 Pv/Yp: 12/11 Drld 9-7/8" hole to PD. Survey: 1° @ 1610'.	(10-3/4" @ 1185')	
11/10-13 3279	Day-13 (1114') - Fishing. MW: 9.0# Vis: 43 Pv/Yp: 9/5 Drld 9-7/8" hole to PD w/TFNB @ 2618'. Twisted off between 8" & 6-3/4" DCs. POH. PU fshg tools. RIH. Engage fsh w/OS. Surveys: 2° @ 2170', 1° @ 2360', 3/4° @ 2550', 1-1/4° @ 3016'.	(10-3/4" @ 1185')	
11/14/84 3370	Day-14 (91') - Drlg. MW: 9.0# Vis: 42 Pv/Yp: 12/8 POH. LD fsh. Inspect BHA. RIH. Wash & rm 80' to btm, 10-15' of fill. Drld 9-7/8" hole to PD.	(10-3/4" @ 1185')	
11/15/84 3403	Day-15 (33') - RIH w/CB. MW: 9.1# Vis: 52 Pv/Yp: 16/14 Drld 9-7/8" hole to 3385'. POH. PU CB & RIH. Cut Core #1 3385-3403'. POH. LD core. Cut 18', rec'd 15'. RIH w/CB. Survey: 3-3/4° @ 3356'.	(10-3/4" @ 1185')	

District	Rocky Mountain	County or Parish	Garfield	State	Utah
Field	Utah High Plateau	Lease or Unit	Forest Creek Divide Unit	Well no.	#1
Date and depth is of 8:00 a.m.	Complete record for each day while drilling or workover in progress				
11/16/84 3437	Day-16 (34') - Drlg. (10-3/4" @ 1185') MW: 9.1# Vis: 48 Pv/Yp: 18/12 RIH w/CB. Cut Core #2, 3403-3428', bbl jammed. POH. LD core. Cut 25', rec'd 21-1/2'. RIH w/CB. Cut Core #3, 3428-3434'. Lost returns & CB jammed. POH. LD core & CB. Cut 6', rec'd 5'. RIH to 2800'. Pump mud w/LCM. Hole filled & obtained 50% returns. FIH. Took 50 bbls to fill hole. Drld 9-7/8" hole to PD w/full returns.				
11/17-19 3680	Day-19 (243') - Logging. (10-3/4" @ 1185') MW: 8.9# Vis: 58 Pv/Yp: 21/17 Drld 9-7/8" hole to 3439'. POH. RIH w/CB. Cut Core #4, 3439-3441'. Jammed. POH. Rec'd 2' core. RIH w/CB. Cut Core #5, 3441-46' & bbl jammed. POH. LD CB, rec'd 4-1/2' core. RIH w/bit & drld to 3461'. POH. RIH w/CB. Cut Core #6, 3461-65' & bbl jammed. POH, LD CB. Rec'd 4'. RIH w/bit. Drld 9-7/8" hole to PD. Sht trip. Circ. POH. RU Schl & strt logging.				
11/20/84 3680	Day-20 (0') - RIH w/OE DP. (10-3/4" @ 1185') MW: NR Vis: NR Pv/Yp: NR Ran logs: DLL/MSFL, FDC/CNL/GR, VHCS, VSP survey. RD Schl. LD DCs. RIH w/OE DP. Prep to plug.				
11/21/84 3680	Day-21 TD - <u>FINAL REPORT - WELL P &amp; A</u> , 11/21/84. (10-3/4" @ 1185') RIH w/OE DP. Set a balanced plug 3370-3170' w/112 sx Cl "A", 1300-1050' w/119 sx CL "A", 200-surf w/95 sx Cl "A". <u>RR 0600 hrs 11/21/84</u> . Prep to set DFM.				

Divide Unit #1  
NE NW Section 28-31S-2W  
Garfield County, Utah

**CONFIDENTIAL**

11/14/84 3370	<p>Day-14 (91') - Drlg. (10-3/4" @ 1185')</p> <p>MW: 9.0# Vis: 42 Pv/Yp: 12/8</p> <p>POH. LD fsh. Inspect BHA. RIH. Wash &amp; rm 80' to btm, 10-15' of fill. Drl'd 9-7/8" hole to PD.</p>
11/15/84 3403	<p>Day-15 (33') - RIH w/CB. (10-3/4" @ 1185')</p> <p>MW: 9.1# Vis: 52 Pv/Yp: 16/14</p> <p>Drl'd 9-7/8" hole to 3385'. POH. PU CB &amp; RIH. Cut Core #1 3385-3403'. POH. LD core. Cut 18', rec'd 15'. RIH w/CB. Survey: 3-3/4" @ 3356'.</p>
11/16/84 3437	<p>Day-16 (34') - Drlg. (10-3/4" @ 1185')</p> <p>MW: 9.1# Vis: 48 Pv/Yp: 18/12</p> <p>RIH w/CB. Cut Core #2, 3403-3428', bbl jammed. POH. LD core. Cut 25', rec'd 21-1/2'. RIH w/CB. Cut Core #3, 3428-3434'. Lost returns &amp; CB jammed. POH. LD core &amp; CB. Cut 6', rec'd 5'. RIH to 2800'. Pmp mud w/LCM. Hole filled &amp; obtained 50% returns. FIH. Took 50 bbls to fill hole. Drl'd 9-7/8" hole to PD w/full returns.</p>
11/17-19 3680	<p>Day-19 (243') - Logging. (10-3/4" @ 1185')</p> <p>MW: 8.9# Vis: 58 Pv/Yp: 21/17</p> <p>Drl'd 9-7/8" hole to 3439'. POH. RIH w/CB. Cut Core #4, 3439-3441'. Jammed. POH. Rec'd 2' core. RIH w/CB. Cut Core #5, 3441-46' &amp; bbl jammed. POH. LD CB, rec'd 4-1/2' core. RIH w/bit &amp; drl'd to 3461'. POH. RIH w/CB. Cut Core #6, 3461-65' &amp; bbl jammed. POH. LD CB. Rec'd 4'. RIH w/bit. Drl'd 9-7/8" hole to PD. Sht trip. Circ. POH. RU Schl &amp; strt logging.</p>
11/20/84 3680	<p>Day-20 (0') - RIH w/OE DP. (10-3/4" @ 1185')</p> <p>MW: NR Vis: NR Pv/Yp: NR</p> <p>Ran logs: DLL/MSFL, FDC/CNL/GR, VHCS, VSP survey. RD Schl. LD DCs. RIH w/OE DP. Prep to plug.</p>
11/21/84 3680	<p>Day-21 TD - <u>FINAL REPORT - WELL P &amp; A</u>, 11/21/84. (10-3/4" @ 1185')</p> <p>RIH w/-E DP. Set a balanced plug 3370-3170' w/112 sx CL "A", 1300-1050' w/119 sx CL "A", 200-surf w/95 sx CL "A". RR 0600 hrs 11/21/84. Prep to set DHM.</p>



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	Other _____		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RENVR. <input type="checkbox"/>	Other _____
2. NAME OF OPERATOR						3. ADDRESS OF OPERATOR	
ARCO Oil and Gas Company, Division of Atlantic Richfield Company						P.O. Box 5540, Denver, Colorado 80217	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)						5. LEASE DESIGNATION AND SERIAL NO.	
At surface 130' FNL & 2435' FWL NE/4 NW/4						U-52169	
At top prod. interval reported below ---						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
At total depth ---						NA	
7. UNIT AGREEMENT NAME						8. UNIT AGREEMENT NAME	
DIVISION OF OIL, GAS & MINING						Forest Creek Divide	
API #43-017-30127						LEASE NAME	
14. PERMIT NO.						WELL NO.	
BLM						Divide Unit #1	
DATE ISSUED						9. FIELD AND POOL, OR WILDCAT	
10-18-84						Wildcat	
11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA						12. COUNTY OR PARISH	
28-31S-2W						Garfield	
13. STATE						14. DATE SPUDDED	
Utah						11-1-84	
15. DATE T.D. REACHED						16. DATE COMPL. (Ready to prod.)	
11-19-84						P&A 11-21-84	
17. ELEVATIONS (DF. RKB, RT, GE, ETC.)*						18. ELEV. CASINGHEAD	
7095' GL 7112' KB						7095'	
20. TOTAL DEPTH, MD & TVD						21. PLUG. BACK T.D., MD & TVD	
3680'						Surface P&A	
22. IF MULTIPLE COMPL., HOW MANY*						23. INTERVALS DRILLED BY	
P&A						0-3680'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*						25. WAS DIRECTIONAL SURVEY MADE	
PLUGGED AND ABANDONED						NO	
26. TYPE ELECTRIC AND OTHER LOGS RUN						27. WAS WELL CORRED	
OLL/MSEL EDC/CNL/GR RHC						YES	

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16"	---	92' KB	Conductor	---	---
10-3/4"	40.5#	1185' KB	14-3/4"	800 SX	NONE

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
---	P	& A	---	---	---	P & A	---

31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
---				---			
P&A				P&A			

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
---		PLUGGED AND ABANDONED				---	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
---	---	---	---	---	---	---	---
PLUGGED AND ABANDONED							
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
---	---	---	---	---	---	---	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY	
---						---	

35. LIST OF ATTACHMENTS	
Daily Well History	

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED L.B. Morse / kj TITLE Operations Manager DATE 12-11-84  
L. B. Morse

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Core #1	3385	3403	Cut 18', recovered 15' - 3' sand, silt st, sh	Volcanics	Surface	
Core #2	3403	3428	Jammed	Clarón	1500'	
Core #3	3428	3434	Jammed	Carmel	3030'	
Core #4	3439	3441	Jammed	Navajo	3375'	
Core #5	3441	3446	Jammed			
Core #6	3461	3465	Jammed			

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Form 3160-6  
(November 1983)  
(Formerly 9-329)

MONTHLY REPORT  
OF  
OPERATIONS

Lease No. U-52169

Communitization Agreement No. \_\_\_\_\_

Field Name Utah High Plateau

Unit Name \_\_\_\_\_

Participating Area \_\_\_\_\_

County Garfield State UTOperator Atlantic Richfield Co.☐ Amended Report (Forest Creek Divide Unit #1)

The following is a correct report of operations and production (including status of all unplugged wells) for the month of November, 19 84

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
1	NE NW Sec. 28	31S	2W	P&A	0	0	0	0	This well was spudded on Oct. 31, 1984.  Please see attached drilling report.  <u>Final report.</u> Well P&A on 11/21/84.

**RECEIVED**  
DEC 14 1984

\*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area Basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	0	0	0
*Sold	0	0	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	0	XXXXXXXXXXXXXXXXXX
*Used on Lease	0	0	XXXXXXXXXXXXXXXXXX
*Injected	0	0	0
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	0
*Other (Identify)	0	0	0
*On hand, End of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	0	0	XXXXXXXXXXXXXXXXXX
Authorized Signature: <u>B. R. Still</u>	Address: <u>P.O. Box 5540, Denver, CO 80217</u>		
Title: <u>Supervisor, Operations Info. Group</u>	Page <u>1</u> of <u>1</u>		

TIGHT HOLE  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	
2. NAME OF OPERATOR ARCO Oil and Gas Company, Division of Atlantic Richfield Company	
3. ADDRESS OF OPERATOR P.O. Box 5540, Denver, Colorado 80217	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 130' FNL & 2435' FWL NE/4 NW/4	
14. PERMIT NO. 43-017-30127	15. ELEVATIONS (Show whether DP, RT, GR, etc.) 7095' GL

5. LEASE DESIGNATION AND SERIAL NO. U-52159	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA	
7. UNIT AGREEMENT NAME Forest Creek Divide	
8. FARM OR LEASE NAME NA	
9. WELL NO. Divide Unit #1	
10. FIELD AND POOL, OR WILDCAT Wildcat	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 28-31S-2W	
12. COUNTY OR PARISH Garfield	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <input type="checkbox"/>	REQUEST FOR CONFIDENTIALITY <input type="checkbox"/>
(Other) <input type="checkbox"/>			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

Permission is hereby requested to hold this well in a  
CONFIDENTIAL status.

RECEIVED  
DEC 20 1984  
DIVISION OF  
OIL, GAS & MINING

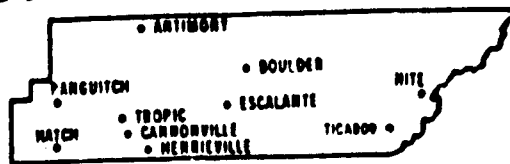
18. I hereby certify that the foregoing is true and correct

SIGNED <u>L.B. Morse</u> L.B. Morse	TITLE <u>Operations Manager</u>	DATE <u>12-14-84</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

\*See Instructions on Reverse Side

COUNTY COMMISSION  
George Middleton, Chairman  
Guy W. Thompson  
H. Dell LeFevre  
Dawna Barney, Clerk

# GARFIELD COUNTY



PANGUITCH, UTAH 84759

Tom Simkins, Assessor  
Patrick D. Nolan, Attorney  
Mamie D. Hatch, Recorder  
Merle Stowell, Treasurer  
Vic Middleton, Sheriff  
John W. Yardley, Justice of the Peace

December 26, 1984

Ross Construction  
Box 397  
Vernal, Utah 84078

Dear Sir:

Garfield County will be responsible for removal of the culvert at Antimony, approximately 100 feet below the canal diversion.

Respectfully,

A handwritten signature in cursive script that reads "Ron Greenhalgh".

Ron Greenhalgh  
Garfield County Road Department

December 26, 1984

To whom it may concern:

I authorize Garfield County to remove the culvert at the Canal diversion in Antimony, Utah.

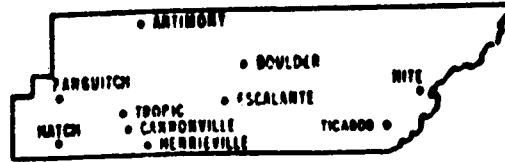
*Verge Brown*

Verge Brown

Otter Creek Irrigation Co.

COUNTY COMMISSION  
George Middleton, Chairman  
Guy W. Thompson  
H. Dell LeFevre  
Dawna Barney, Clerk

# GARFIELD COUNTY



PANGUITCH, UTAH 84759

Tom Simkins, Assessor  
Patrick B. Nolan, Attorney  
Mamie D. Hatch, Recorder  
Merle Stowell, Treasurer  
Vic Middleton, Sheriff  
John W. Yardley, Justice of the Peace

December 26, 1984

Verge Brown  
Otter Creek Irrigation Company  
Annabella, Utah

Dear Sir:

Garfield County agrees to remove the culvert at the diversion at Antimony, before high water run off. April 1, 1985

Please sign the statement enclosed for my records.

Respectfully,

A handwritten signature in cursive script, appearing to read "Ron Greenhalgh".

Ron Greenhalgh  
Garfield County Road Department

ARCO Oil and Gas Company  
Rocky Mountain District  
707 17th Street  
Mailing address: P.O. Box 5540  
Denver, Colorado 80217  
Telephone 303 293 4600



January 7, 1985

Mr. Virge Brown  
Otter Creek Reservoir Company  
P.O. Box 15  
Annabella, Utah 84711

RE: Release of Responsibility - Culvert Removal  
Forest Creek Divide Unit #1 Well  
Garfield County, Utah


Dear Mr. Brown:

Upon concurrence by both parties, this letter will serve to make null & void the agreement dated 10/5/84 reached between ARCO Oil and Gas Company and Otter Creek Reservoir Company, a copy of which is attached. Specifically, ARCO will be freed from any responsibility regarding the installation or removal of the culvert which was installed within the subject wells access road.

As per the attached agreements reached between Otter Creek Reservoir Company and Garfield County, the responsibilities concerning this culvert will be transferred from ARCO Oil and Gas Company to Garfield County.

If you concur with this agreement, please sign below. If you have any questions regarding this matter, please call me at (303) 293-1077.


Sincerely,

  
Suzanne M. Barnes  
Drilling Engineer *IEO*  
*KUP*

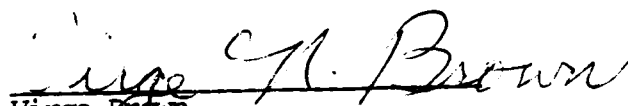
SMB/tkj

Attachment

CONCUR:

  
J. M. McCarthy  
District Drilling Superintendent  
ARCO Oil and Gas Company

CONCUR:

  
Virge Brown  
President  
Otter Creek Reservoir Company

cc: J. E. Onisko  
K. U. Park  
J. M. McCarthy  
M. T. Webster

Well File

ARCO Oil and Gas Company is a Division of Atlantic Richfield Company



☐ ARCO Exploration Company  
☐ ARCO Oil and Gas Company

Record Of Shipments Of Confidential Information

District

To: State of Utah - Natural Resources  
3 Trade Center, Suite 350  
SLC, UT 84180-1203

From: ARCO Exploration - G. S. Wise  
P.O. Box 5540  
Denver, CO 80217

☒ Enclosed ☐ Under separate cover ☐ Via

Subject

Completion Data

Page 2 of 2

Quantity

Map number & description

4 #1 Forest Creek Divide

(1) Dual Laterlog-MSFL; (1) Borehole Compensated Sonic;  
(1) Litho Density Compensated Neutron; (1) Core Analysis Report.

6 #1 Jeep Trail

(1) Dual Laterlog-MSFL-Gamma Ray-SP; (1) Borehole  
Compensated Sonic; (1) Compensated Neutron Litho-  
Density-Gamma; (2) Drill Stem Test Reports; (1) Core  
Analysis Report.

4 #1 Rocky Ford

(1) Dual Laterlog-MSFL; (1) Borehole Compensated Sonic;  
(1) Litho Density Compensated; (1) Core Analysis  
Report

Note—Please verify and acknowledge receipt, by signing and returning the second copy of this transmittal.

Signed by

C. Hayes for G. S. Wise

Date

3/18/85

Received by

RECEIVED

Remarks

MAR 20 1985

DIVISION OF OIL  
& GAS & MINING

**TerraTek**

# Core Services, Inc.®

December 13, 1984

ARCO Exploration Company  
P.O. Box 5540  
Denver, Colorado 80217

Attention: Mr. Jim Perkins

Subject: Core Analysis Data; Forest Creek Divide No. 1 Well; Garfield  
County, Utah; TTCS File No. 85107

Gentlemen:

Diamond coring equipment and water base mud were used to obtain 4.0-inch diameter cores from the formations and intervals shown on the preceding page in the subject well. A representative of Terra Tek Core Services received the cores at the well-site where they were preserved in plastic polytubing and transported to our Salt Lake City laboratory for routine plug analysis.

A core gamma log was recorded and, along with porosity, permeability, grain density and fluid saturation plots, is shown on the enclosed Teklog.

Residual fluid removal was accomplished by the Dean-Stark low temperature solvent extraction method on one-inch diameter plug samples drilled from the cores. Porosities were determined by Boyle's law (helium) grain volumes and Archimedes (mercury) bulk volumes. Horizontal permeabilities to nitrogen were measured on these same plugs in a hassler sleeve using an orifice manometer and traveling meniscus to monitor downstream flow.

Data resulting from the above analysis is tabulated on pages one through three followed by a summary reflecting average data by zones based on permeability, porosity and fluid saturation variations.

The cores are being shipped to the ARCO core storage facility on East 51st Street in Denver.

We sincerely appreciate this opportunity to be of service.

Very truly yours,

*Jack R. Good*  
Jack R. Good  
Laboratory Director

JRG/cy

# TerraTek Core Services, Inc.®

ARCO Exploration Company  
Forest Creek Divide Well No. 1  
Garfield County, Utah

TTCS File No. 85107

<u>Core No.</u>	<u>Interval</u>	<u>Formation</u>
1	3385.0 - 3403.0	Navajo
2	3403.0 - 3428.0	Navajo
3	3428.0 - 3434.0	Navajo
---	3434.0 - 3439.5	Drilled Interval
4	3439.5 - 3441.0	Navajo
5	3441.0 - 3446.0	Navajo
---	3446.0 - 3461.0	Drilled Interval
6	3461.0 - 3465.0	Navajo

**RECEIVED**

**MAR 20 1985**

**DIVISION OF OIL  
& GAS MINING**

# TerraTek Core Services, Inc.

# PRELIMINARY

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

## ARCO EXPLORATION COMPANY

Well: Forest Creek Divide #1  
Field:  
Drilling Fluid:

State:  
County:  
Location:

Date: 03 Dec 1984  
ITCS File #: 85107  
Elevation:

WW  
Garfield Co.

See 315 T-375 R4.5  
43-019-30126  
315.2W B

Sample Number	Depth (feet)	Permeability	Porosity	Saturation		Grain	Lithology
		Horz (md)	(%)	Oil (%)	H2O (%)	Density (gm/cc)	
1	3385.0-86.0	0.20	20.1	0.0	87.2	2.80	
2	3386.0-87.0	2.6	16.5	0.0	99.3	2.75	
3	3387.0-88.0	0.83	19.0	0.0	91.9	2.74	
4	3388.0-89.0	0.01	9.1	0.0	99.3	2.74	
5	3389.0-90.0	0.04	15.3	0.0	96.4	2.77	
	3390.0 - 3395.0						
6	3395.0-96.0	6.2	26.2	0.0	96.2	2.76	
7	3396.0-97.0	10	25.3	0.0	86.1	2.81	
8	3397.0-98.0	0.24	16.9	0.0	77.2	2.85	
9	3398.0-99.0	0.46	15.5	0.0	92.0	2.81	
10	3399.0-00.0	<0.01	11.5	0.0	86.3	2.79	
	3400.0 - 3403.0						
11	3403.0-04.0	0.15	17.3	0.0	76.5	2.86	
12	3404.0-05.0	0.03	10.3	0.0	85.7	2.86	
13	3405.0-06.0	0.01	17.0	0.0	77.3	2.89	
14	3406.0-07.0	0.01	14.6	0.0	79.6	2.86	
15	3407.0-08.0	0.02	16.3	0.0	75.9	2.88	
16	3408.0-09.0	0.02	17.1	0.0	84.6	2.85	
	3409.0 - 3417.0						
17	3417.0-18.0	0.30	15.3	0.0	56.6	2.78	

Sh, slty, calc

Not Recovered

Sh, slty

RECEIVED

MAR 20 1985

DIVISION OF OIL  
GAS & MINING

GEOLOGIC  
WELL FILE

# TerraTek Core Services, Inc.®

Page 2

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

ARCO EXPLORATION COMPANY

Date: 03 Dec 1984

TICS File #: 85107

Well:

Forest Creek Divide #1

WW

Sample Number	Depth (feet)	Permeability	Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)		Oil (%)	H2O (%)		
18	3418.0-19.0	0.07	12.0	0.0	86.2	2.65	
19	3419.0-20.0	0.15	12.9	0.0	80.4	2.65	
20	3420.0-21.0	0.06	10.3	0.0	85.7	2.65	
21	3421.0-22.0	2.3	12.2	0.0	78.8	2.65	
22	3422.0-23.0	3.9	12.0	0.0	81.6	2.64	
23	3423.0-24.0	5.1	13.4	0.0	81.7	2.64	
24	3424.0-25.0	3.6	16.2	0.0	79.1	2.71	
	3425.0 - 3426.0						Not Recovered
25	3428.0-29.0	2.0	12.0	0.0	81.5	2.66	
26	3429.0-30.0	2.5	11.4	0.0	71.4	2.69	
27	3430.0-31.0	1.9	9.5	0.0	81.6	2.65	
28	3431.0-32.0	2.0	10.0	0.0	87.3	2.65	
29	3432.0-33.0	2.3	11.4	0.0	80.9	2.67	
30	3433.0-34.0	4.9	12.0	0.0	75.3	2.66	
	3434.0 - 39.5						Drilled Interval
31	39.5-40.0	5.9	10.9	0.0	59.4	2.65	
32	3440.0-41.0	10	12.3	0.0	60.2	2.66	
33	3441.0-42.0	9.8	12.3	0.0	60.0	2.65	
34	3442.0-43.0	11	11.2	0.0	61.9	2.64	
35	3443.0-44.0	6.1	12.3	0.0	57.9	2.66	
36	3444.0-45.0	9.6	12.7	0.0	76.2	2.68	
37	3445.0-46.0	6.4	10.9	0.0	84.4	2.67	

**GEOLOGIC  
WELL FILE**

# TerraTek Core Services, Inc.®

Page 3

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

ARCO EXPLORATION COMPANY

Date: 03 Dec 1984

TICS File #: 85107

Well:

Forest Creek Divide #1

WW

Sample Number	Depth (feet)	Permeability	Porosity	Saturation		Grain	Lithology
		Horz (md)	(%)	Oil (%)	H2O (%)	Density (gm/cc)	
-----							-----
	3446.0 - 3461.0						Drilled Interval
38	3461.0-62.0	1.9	11.7	0.0	87.8	2.67	
39	3462.0-63.0	4.2	12.2	0.0	80.9	2.67	
40	3463.0-64.0	13	11.1	0.0	77.7	2.66	
41	3464.0-65.0	9.5	11.1	0.0	89.4	2.64	

**GEOLOGIC  
WELL FILE**



TERRA TEK CORE SERVICES INC.  
360 Wakara Way, SLC Utah 84108 (801) 584-2480

ARCO EXPLORATION COMPANY  
Forest Creek Divide #1

13 Dec 1984  
TTCS No. 85107

TEKLOG

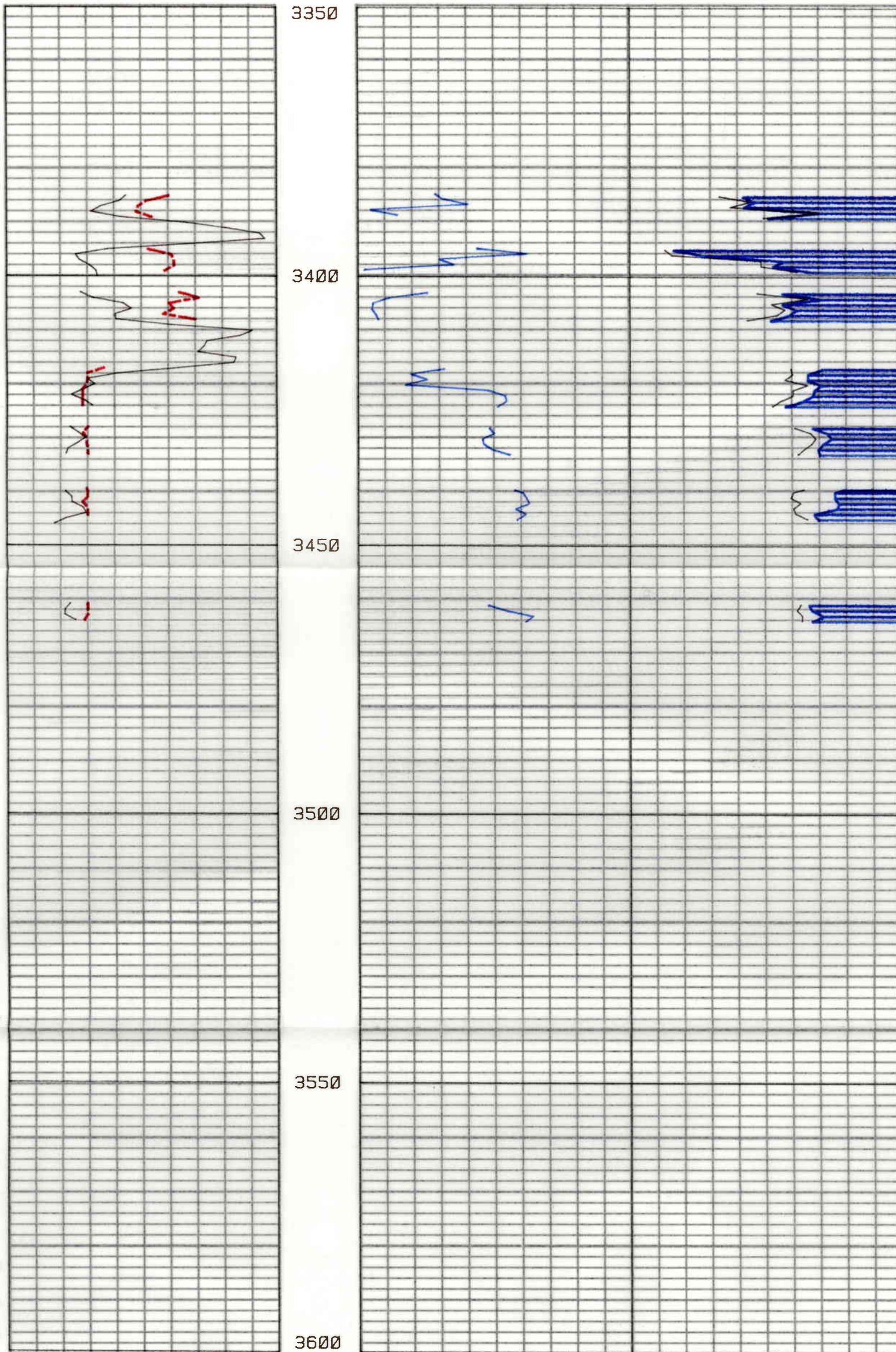
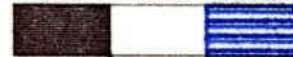
0 GR CPM 500  
2.58 Gd gm/cc 3.00

0.01 K<sub>h</sub> mD 1000

30 Core Ø % Ø

Fractional Fluids

Oil Void Water



BEST COPY  
AVAILABLE

# TerraTek Core Services, Inc.®

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

## ARCO EXPLORATION COMPANY

Well:	Forest Creek Divide #1	State:	Utah	Date:	13 Dec 1984
Field:	Wildcat	County:	Garfield	TTCS File #:	85107
Drilling Fluid:	Water Base	Location:	Sec. 28-T31S-R2W	Elevation:	

## PLUG DEAN-STARK ANALYSIS

Sample Number	Depth (feet)	Permeability	Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)		Oil (%)	H2O (%)		

## NAVAJO FORMATION

1	3385.0-86.0	0.20	20.1	0.0	87.2	2.80	Dol,suc,sdy,sty
2	3386.0-87.0	0.29	16.7	0.0	97.6	2.76	Dol,suc,sdy,lmy
3	3387.0-88.0	0.83	19.0	0.0	91.9	2.74	Dol,suc,sdy,lmy
4	3388.0-89.0	0.01	9.2	0.0	97.8	2.74	Ls,fxl,sdy,sl/per
5	3389.0-90.0	0.04	15.3	0.0	96.4	2.77	Dol,suc,sdy,lmy
3390.0 - 3395.0							
6	3395.0-96.0	1.2	26.2	0.0	96.2	2.76	Sh,slty,calc
7	3396.0-97.0	10	25.3	0.0	86.1	2.81	Dol,ool,sl/lmy,pp vss
8	3397.0-98.0	0.24	15.5	0.0	84.0	2.81	Dol,ool,sl/lmy,pp vss,fis
9	3398.0-99.0	0.46	15.5	0.0	92.0	2.81	Dol,ool,sl/lmy,pp vss
10	3399.0-00.0	0.01	11.5	0.0	86.3	2.79	Dol,fxl,sl/lmy
3400.0 - 3403.0							
11	3403.0-04.0	0.15	16.0	0.0	82.4	2.82	Not Recovered
12	3404.0-05.0	0.03	10.3	0.0	85.7	2.86	Dol,suc
13	3405.0-06.0	0.01	14.4	0.0	91.4	2.80	Dol,fxl-suc,sl/anh
14	3406.0-07.0	0.01	12.9	0.0	90.1	2.81	Dol,suc,sl/anh
15	3407.0-08.0	0.02	13.8	0.0	90.1	2.79	Dol,suc,sl/anh
16	3408.0-09.0	0.02	17.1	0.0	84.6	2.85	Dol,suc



# TerraTek Core Services, Inc.®

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Page 2

ARCO EXPLORATION COMPANY

Date: 13 Dec 1984

TICS File #: 85107

Well: Forest Creek Divide #1

PLUG DEAN-STARK ANALYSIS

Sample Number	Depth (feet)	Permeability Horz (md)	Porosity (%)	Saturation Oil (%)	H2O (%)	Grain Density (gm/cc)	Lithology
3409.0 - 3417.0							Sh, slty
17	3417.0-18.0	0.30	12.2	0.0	71.0	2.68	Sd, f-mg, slty, var
18	3418.0-19.0	0.07	12.0	0.0	86.2	2.65	Sd, f-mg, slty
19	3419.0-20.0	0.15	12.9	0.0	80.4	2.65	Sd, f-cs, slty, sl/var
20	3420.0-21.0	0.06	10.3	0.0	85.7	2.65	Sd, f-mg, slty
21	3421.0-22.0	1.9	12.0	0.0	80.2	2.64	Sd, f-mg, sl/slty
22	3422.0-23.0	4.0	12.0	0.0	81.6	2.64	Sd, f-mg, sl/slty
23	3423.0-24.0	4.2	13.4	0.0	81.7	2.64	Sd, f-mg, sl/slty
24	3424.0-25.0	2.9	14.3	0.0	89.7	2.64	Sd, f-mg, sl/slty
3425.0 - 3428.0							Not Recovered
25	3428.0-29.0	2.0	11.8	0.0	83.3	2.65	Sd, f-mg, sl/slty
26	3429.0-30.0	2.5	10.0	0.0	81.2	2.64	Sd, f-mg, sl/slty
27	3430.0-31.0	1.5	9.5	0.0	81.6	2.65	Sd, f-mg, sl/slty
28	3431.0-32.0	1.6	10.0	0.0	87.3	2.65	Sd, f-mg, sl/slty
29	3432.0-33.0	2.3	10.8	0.0	85.5	2.65	Sd, f-mg, sl/slty
30	3433.0-34.0	4.9	11.5	0.0	78.3	2.65	Sd, f-mg, sl/slty
3434.0 - 3439.5							Drilled Interval
31	3439.5-40.0	5.9	10.9	0.0	59.4	2.65	Sd, f-mg, sl/slty
32	3440.0-41.0	8.5	12.0	0.0	61.6	2.65	Sd, f-mg, sl/slty
33	3441.0-42.0	9.8	12.3	0.0	60.0	2.65	Sd, f-mg, sl/slty
34	3442.0-43.0	11	11.2	0.0	61.9	2.64	Sd, f-mg, sl/slty
35	3443.0-44.0	6.1	12.0	0.0	59.4	2.65	Sd, f-mg, sl/slty

# TerraTek Core Services, Inc.®

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Page 3

ARCO EXPLORATION COMPANY

Date: 13 Dec 1984

TICS File #: 85107

Well:

Forest Creek Divide #1

PLUG DEAN-STARK ANALYSIS

Sample Number	Depth (feet)	Permeability	Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)		Oil (%)	H2O (%)		
36	3444.0-45.0	9.6	11.7	0.0	82.8	2.65	Sd,f-ms,sl/slt
37	3445.0-46.0	6.4	10.4	0.0	88.5	2.65	Sd,f-ms,sl/slt
	3446.0 - 3461.0						Drilled Interval
38	3461.0-62.0	1.9	11.2	0.0	91.5	2.65	Sd,f-ms,sl/slt
39	3462.0-63.0	4.2	11.6	0.0	85.2	2.65	Sd,f-ms,sl/slt
40	3463.0-64.0	13	11.0	0.0	78.2	2.65	Sd,f-ms,sl/slt
41	3464.0-65.0	9.5	11.1	0.0	89.4	2.64	Sd,f-ms,sl/slt

# TerraTek Core Services, Inc.®

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

## ARCO EXPLORATION COMPANY

Well:	Forest Creek Divide #1	State:	Utah	Date:	13 Dec 1984
Field:	Wildcat	County:	Garfield	TTCS File #:	85107
Drilling Fluid:	Water Base	Location:	Sec. 28-T31S-R2W	Elevation:	

## PLUG DEAN-STARK ANALYSIS DATA SUMMARY

Zone Number	Depth Interval (feet)	Number of samples	Permeability Horz (md)	Porosity (%)	Saturation Oil (%)	H2O (%)	Grain Density (gm/cc)
NAVAJO FORMATION							
1	3385.0-390.0	5	0.28 [0.33]	16.1 [4.3]	0.0 [0.0]	94.2 [4.6]	2.76 [0.0]
2	3395.0-397.0	2	5.7 [6.4]	25.8 [0.6]	0.0 [0.0]	91.1 [7.2]	2.78 [0.0]
3	3397.0-400.0	3	0.24 [0.23]	14.1 [2.3]	0.0 [0.0]	87.4 [4.1]	2.80 [0.0]
4	3403.0-409.0	6	0.04 [0.05]	14.1 [2.4]	0.0 [0.0]	87.4 [3.6]	2.82 [0.0]
5	3417.0-421.0	4	0.14 [0.11]	11.9 [1.1]	0.0 [0.0]	80.8 [7.0]	2.66 [0.0]
6	3421.0-425.0	4	3.3 [1.1]	12.9 [1.1]	0.0 [0.0]	83.3 [4.3]	2.64 [0.0]

[ ] Sample standard deviation

# TerraTek Core Services, Inc.®

Page 2

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ARCO EXPLORATION COMPANY

Date: 13 Dec 1984

TICS File #: 85107

Well:

Forest Creek Divide #1

## DATA SUMMARY

Zone Number	Depth Interval (feet)	Number of samples	Permeability Horz (md)	Porosity (%)	Saturation Oil (%)	H2O (%)	Grain Density (gm/cc)
7	3428.0-434.0	6	2.5 [1.3]	10.6 [0.9]	0.0 [0.0]	82.9 [3.2]	2.65 [0.0]
8	3439.5-446.0	7	8.2 [2.1]	11.5 [0.7]	0.0 [0.0]	67.7 [12.4]	2.65 [0.0]
9	3461.0-465.0	4	7.2 [5.0]	11.2 [0.3]	0.0 [0.0]	86.1 [5.9]	2.65 [0.0]

[ ] Sample standard deviation

# TerraTek Core Services, Inc.®

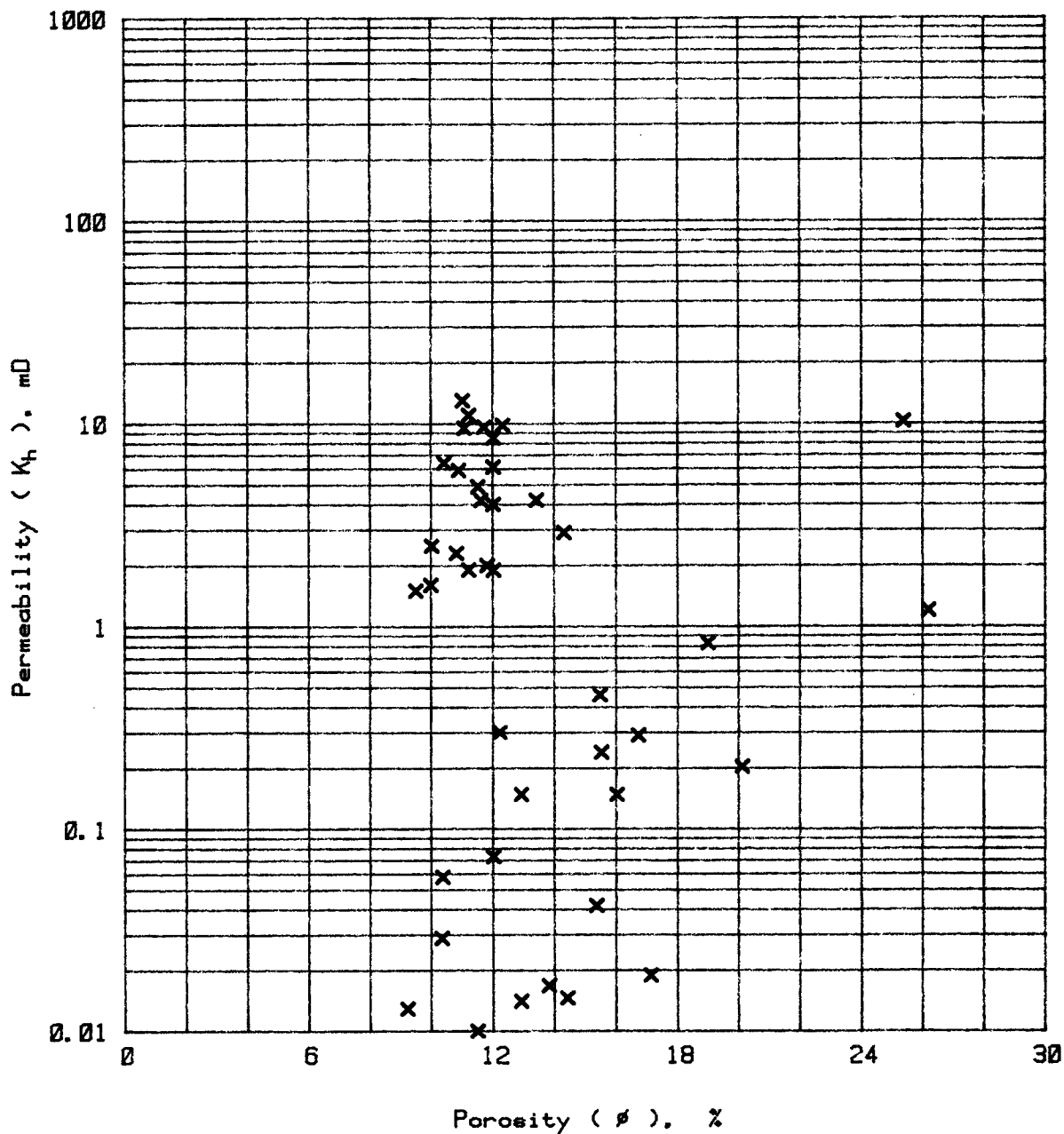
University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

## HORIZONTAL PERMEABILITY VS POROSITY

### ARCO EXPLORATION COMPANY

Forest Creek Divide #1  
Wildcat Field  
Garfield County, Utah  
13 Dec 1984

Depth Interval : 3385 to 3465 feet		
Permeability ( $K_h$ ), mD		
Min 8.81	Max 13.88	Geo. Ave 8.78
Porosity ( $\phi$ ), %		
Min 9.2	Max 28.2	Average 13.3



FINAL DISTRIBUTION LIST

ARCO Exploration Company  
Forest Creek Divide Well No.1  
Garfield County, Utah

TTCS File No. 85107

1 COPY TO:

Hewitt Producing Company  
401 9th Avenue, S.W., Suite 915  
Calgary, Alberta T2P3C5

2 COPIES TO:

Superior Oil  
600 17th Street, Suite 1500  
Denver, CO 80202

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Denver, CO 80202

Attn: Davis Hardy

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Marthon Oil Company  
Exploration Supervisor  
P.O. Box 2659  
Casper, WY 82602

Attn: S.W. Area

TIGHT HOLE  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN THE DATE  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS OF WELLS

(Do not use this form for proposals to drill or to deepen or plug back to an oil or gas reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-52169
2. NAME OF OPERATOR ARCO Oil and Gas Company, Div. of Atlantic Richfield Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
3. ADDRESS OF OPERATOR P.O. Box 5540, Denver, Colorado 80217		7. UNIT AGREEMENT NAME Forest Creek Divide
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  130' FNL & 2435' FWL NE/4 NW/4		8. FARM OR LEASE NAME NA
14. PERMIT NO. 43-017-30127		9. WELL NO. Divide Unit #1
15. ELEVATIONS (Show whether DP, ST, GR, etc.) 7085' GL		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR S.E. AND SURVEY OR AREA 28-31S-2W
		12. COUNTY OR PARISH Garfield
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PEEL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (If state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).\*

As approved per phone conversations between Therron Mitchell (Cedar City BLM) and Suzanne Barnes (ARCO), the responsibility of the culvert removal within the subject well's access road has been transferred from ARCO to Otter Creek Reservoir Co. (the surface landowner). Attached, please find a copy of the agreement as reached between ARCO and Otter Creek Reservoir Co.

RECEIVED

APR 03 1985

DIVISION OF OIL  
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED L.B. Morse TITLE Operations Manager DATE 3/26/85

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

January 31, 1986

TO: Jean Doutre, Oil and Gas Field Specialist  
FROM: Dorothy Swindel, Oil and Gas Field Specialist *DS*  
RE: Garfield County Inspections

The attached information concerns inspections which I conducted in Garfield County. The list includes 16 plugged and abandoned wells which require no further inspections. The file folder contains some of the more recently plugged wells in the county, but certainly does not contain all the plugged wells in Garfield County. This material was compiled to assist you in your inspections of that area, and prevent any repetitious inspections. All producing and/or shut-in wells will need their yearly inspection this summer.



ATTACHMENT 1 (continued)

RYDER SCOTT OIL COMPANY

Marsh 1-32

Sec.32, T.35S, R.4E,

ARCO OIL AND GAS COMPANY

Buck Knoll Unit #1

Sec.36, T.37S, R.4 1/2 W,

ARCO OIL AND GAS COMPANY

Forest Creek Divide Unit #1

Sec.28, T.31S, R.2W,

P4A.